5/23 rev FAA Tank Number: UST 53A (SOW C-3 reference) ADEC Tank Number: Non Regulated UST Annette Island Former FAA Facility Site and Facility: Annette Island, Alaska Tank Property Department of Interior, BIA Federal Aviation Administration Owner: P.O. Box 25520 Owner/Operator: 222 West Seventh Avenue, #14 Juneau, AK 99802 Anchorage, Alaska 99513-7587 **UST Location:** Former FAA Living Quarters Area, Building 101. **Legal Description:** Section 5, T078S, R092E, Copper River Meridian Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude **Decommissioning** Dave Hodgdon, CH2-OH Witnesses: Matt Flynn, CH2-OH, UST #AK507 Assessment (Qualified individual per 18 AAC 78.995[87]) Supervisor: Peter Henderson, CH2-OH Melvin Bryant, CH2-OH SITE DESCRIPTION AND CLIMATE Average Annual Precipitation: 115 44 inches Average July Temp.: Average January Temp.: Estimated Depth to Groundwater: <5 Type of Backfill (unified class.): Locally available sand and gravel. **Site Geology and Hydrogeology:** Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level. **Surface Cover:** Surface cover at the tank site was 12 inches of gravel. Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine. Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve that is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site. Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences. Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility. Location of Wells at or Near Site: None reported. Location of Underground Utilities at Site: Active water lines are near but were not encountered at this site. Overhead power lines exist at

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Quarters area but were not at this tank site.

Living

Site Access:	The former FAA housin	g area is accessible by a	n unsecured gravel	road east of Butterfly A	venue.
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Climatological Conditions During Assessment: heavy rain, wind, 40°F

FAA Tank Number: UST 53A (SOW C-3 reference)

ADEC Tank Number:

Non Regulated UST

Site and Facility:

Annette Island Former FAA Facility

TANK INFORMATION	N					
Product Stored:	heating oil		Tan	k Capacity:	800 gallons	
Year Installed:	unknown		Length: 10 feet	t	Diameter:	46 inches
Wall Construction Construction Mater Protective Outer Control	rial:	XX	Single Wall Steel Asphalt	Resin	Double Wall Fiberglass Fiber	glass <u>XX</u> <b>N</b> one
Cathodic Protection:		XX XX	No No		Yes Yes	Unknown Unknown
Number and Size o	of Tank Penetrations: _ f	our 2-inch bu	ungs on the top surface	e of the tank—I	oungs were used for v	vent, fill, feed, and return
Date of Last Integr	ity Test: unknown		Type of Integrity	Test: N/A		
Historical Leaks or	Inventory Discrepancy:					None reported.
Review of Inventor	y and Repair Records:	None report	ted.			
<u>on</u>				<del>-</del>	-	ons, the tank was removed eptember 29, 1999, the tank
was cut into manager future recycling.	able pieces with an acetyle	ne/oxygen to	rch and cleaned. The o	cut tank pieces	were delivered to the	Metlakatla Quarry site for
Tank Bottoms Quai	ntity and Disposal: : App	proximately 5	0 gallons of off-spec. d	iesel was remo	ved and shipped to B	urlington Environmental, Inc.,
734 South Lucile Stre	eet, Seattle, WA 98108 (AN	N32a).				
Tank Inspection No	otes: Tank was slightly	rusted with	no visible signs of crac	cks, leaks, or h	oles.	
Piping Notes: 1	Not applicable.					

FAA Tank Number: UST 53A (SOW C-3 reference)

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

Annette Island, Alaska

#### **EXCAVATION**

**Excavation Notes:** The tank was excavated with shovels and a backhoe on September 28, 1999. The final dimensions of the excavation area were approximately 8 feet wide, 16 feet long, and 4.5 feet below ground surface (bgs). The top of the tank was approximately 12 inches bgs. Excavation was lined with 10 mil poly before backfilling with imported fill from Ketchikan Quarry and screened clean soils. Soil Conditions: Topsoil consisted of sand and gravel. Clay was encountered at approximately 4 feet bgs. Groundwater Conditions: Groundwater was encountered at an approximate depth of 4 feet bgs. A fuel sheen was present on the surface. **Thermal Conditions:** The soil was unfrozen to the limits of the excavation. **ENVIRONMENTAL SCREENING** Screening Instrument(s): \_\_Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial Scientific Corporation HMX 271 LEL/O2 Meter Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached. **Summary of Results: Soils Near Tank Penetrations:** There was no apparent staining of soils above the tank Soils Excavated as Required for Tank Removal: Approximately 5 cubic yards of soil were excavated during tank removal operations. 1.5 CY of topsoil contaminated with lead paint chips from the adjacent house were excavated and placed into a roll-off shipping container for off-site transportation and disposal. Soils After Tank Removal: Approximately 13 additional cubic yards of fuel-contaminated soil was excavated following tank removal operations. The decision to excavate additional soil was based on field screening results. Soils at Limit of Excavation: Six soil samples were collected for field screening with the OVM, and five confirmation soil samples (including one quality control duplicate sample) (ANN99SS001Q01 through ANN99SS001Q05) were collected for offsite laboratory analysis from the excavation bottom and side walls as shown in Figure 3. One soil sample (ANN99TS001Q01) was collected for total lead. Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to Building 101 for heating oil storage. Stockpiles: Petroleum- contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers offsite transportation and disposal. Analytical data for containered soil is attached. Fuel affected soil was sent to TPS Technologies, Inc., 2800 -104th

FAA Tank Number: <u>UST 53A (SOW C-3 reference)</u>

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

Annette Island, Alaska

Street Court, South, Lakewood, WA 98444 (ANN37). A soil recycling certificate is attached. Lead affected soil was sent to Chem Waste Management

of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33)

**Groundwater:** Groundwater was encountered during tank removal operations and had been impacted by leaking/spilled fuel. Groundwater samples will be collected during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: <u>UST 53A (SOW C-3 reference)</u>

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

RELEASE RESPONSE
Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank.
Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on September 29, 1999, at 0900 hours. A copy of the release notification is attached.
Initial Abatement ActionsThe soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned.
Approximately 13 cubic yards of potentially contaminated soil was removed and containerized for offsite transportation and disposal.
Release Investigation Report: A release investigation is scheduled for 2000 field season since MIC cleanup levels were not reached.
Corrective Action: Pending the results of a release investigation.
Hazard Ranking Summary and Score: N/A
Corrective Action Plan Summary and Status: Pending the results of a release investigation.

DATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comme	•		Not
	Yes	No	Required
Were samples analyzed for requested parameters?	?		
2. Is the ADEC Data Deliverables package complete?	?		
3. Were samples extracted within holding time acceptance criteria?	?		
4. Were samples analyzed within holding time acceptance criteria?	?		
5. For soils, were sample results reported on a "dry weight" basis?	?		
6. Were method blanks analytes all reported as ND?	?		
7. For water, were trip blank analytes all reported as ND?			?
3. Are the surrogate percent recoveries within acceptance criteria?		?	
Are the matrix spike percent recoveries within acceptance criteria?	?		
0. Are the matrix spike relative percent differences within acceptance	criteria?	?	
11. Are the field duplicate relative percent differences less than 50 percent	cent?		?
Comments:			
Surrogate recovery for samples ANN99SS001Q01, ANN99SS001Q02, ANN9	9SS001Q04, and A	NN99SS001Q05	were
outside of control limits because of matrix interference.			
1. The field duplicate relative percent difference for DRO analysis was 81.3%.	The field duplicate i	relative percent di	fference
for RRO analysis could not be calculated. The field duplicate relative percent	difference for napth	nalene (PAHs) cou	uld not
be calculated.			

Approved by: \_\_\_\_\_

### **UST DECOMMISSIONING ASSESSMENT**

Rev. 5/24

FAA Tank Number: UST 53B (SOW C-3 reference) ADEC Tank Number: Non Regulated UST Annette Island Former FAA Facility Site and Facility: Annette Island, Alaska Tank Property Department of Interior, BIA Federal Aviation Administration Owner: P.O. Box 25520 Owner/Operator: 222 West Seventh Avenue, #14 Juneau, AK 99802 Anchorage, Alaska 99513-7587 **UST Location:** Former FAA Living Quarters Area, Building 102. **Legal Description:** Section 5, T078S, R092E, Copper River Meridian Latitude and Longitude: 55:07' N Latitude, 131:34' Longitude **Decommissioning** Dave Hodgdon, CH2-OH Witnesses: Matt Flynn, CH2-OH, UST #AK507 Assessment (Qualified individual per 18 AAC 78.995[87]) Supervisor: Peter Henderson, CH2-OH Melvin Bryant, CH2-OH SITE DESCRIPTION AND CLIMATE Average Annual Precipitation: 115 44 inches Average July Temp.: Average January Temp.: Estimated Depth to Groundwater: <5 Type of Backfill (unified class.): Inorganic pit run from local quarry. Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level. Surface Cover: Surface cover at the tank site was 12 inches of gravel. Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine. Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve that is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site. Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences. Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility. Location of Wells at or Near Site: None reported Location of Underground Utilities at Site Overhead power lines exist at the Living Quarters Area but were not encountered at this site. A 1-1/4-inch copper water line was damaged during tank removal operations. Field crews controlled the flow of water from the line by pinching the end shut and contacted the Metlakatla Water Company. A crew was dispatched to the site to repair the damaged water line.

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Site Acces	: The forme	r FAA housing	area is acc	essible by ar	n unsecured ar	ravel road e	east of Butterfly Av	zenue.
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Climatological Conditions During Assessment: heavy rain, wind, 40°F

FAA Tank Number: UST 53B (SOW C-3 reference)

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

TANK INFORMATIO	ON						
Product Stored:	heating oil		Tai	nk Capacity:	1000 gallons		
Year Installed:	9/49		Length: 6 feet		_ Diameter:	5 feet 4 inches	
Wall Construction Construction Mate Protective Outer C Other:	erial:	XX XX	Single Wall Steel Asphalt	Resin	Double Wall Fiberglass Fiberg	ılass <u>XX</u>	None
Cathodic Protection	*	XX XX	No No		es es		known known
Number and Size lines	of Tank Penetrations:	Four 2-inch b	oungs on the top surfa	ce of the tank. Bu	ings were used for ve	ent, fill, feed, and r	<u>eturn</u>
Date of Last Integ	rity Test: unknown		Type of Integrity	y Test: N/A			
Historical Leaks o	or Inventory Discrepanc	y:				None	reported.
Review of Invento	ory and Repair Records:	: None reporte	d.				
<u>on</u>	d Disposal: Following 9, and moved to a designa			-	-		
was cut into manag	geable pieces with an acet	ylene/oxygen to	orch and cleaned. The	cut tank pieces v	vere delivered to the	Metlakatla Quarry	site for
Tank Bottoms Qua	antity and Disposal: :_A treet, Seattle, WA 98108 (A		5 gallons of off-spec of	liesel was remove	ed and sent to Burling	ton Environmental	Inc.,
Tank Inspection N	Notes: Tank was slig	htly rusted with	no visible signs of cra	acks, leaks, or ho	les.		
Piping Notes: _	Not applicable.						

FAA Tank Number: UST 53B (SOW C-3 reference)

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

Annette Island, Alaska

## **EXCAVATION**

Excavation Notes: The tank was excavated with shovels and a backhoe on September 28, 1999. The final dimensions of the excavation area
were approximately 7 feet wide, 15 feet long, and 6 feet below ground surface (bgs). The top of the tank was approximately 12 inches bgs. The excavation
was lined with 10 mil poly before backfilling with imported fill from Ketchikan Quarry and screened clean soils.
Soil Conditions: Topsoil consisted of sand and gravel. Clay was encountered at an approximate depth of 5 feet bgs.
Groundwater Conditions: Groundwater was encountered at an approximate depth of 5.5 feet bgs. A heavy fuel product was present on the surface.
Thermal Conditions:The soil was unfrozen to the limits of the excavation.
ENVIRONMENTAL SCREENING
Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial Scientific Corporation HMX 271 LEL/O2 Meter
Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.
Summary of Results:
Soils Near Tank Penetrations: There was no apparent staining of soils above the tank.
Soils Excavated as Required for Tank Removal: Approximately 10 cubic yards of soil was excavated during tank removal operations 1.5 CY of
of
transportation and disposal.
Soils After Tank Removal: Approximately 12 additional cubic yards of fuel-contaminated soil were excavated following tank removal
operations. The decision to excavate additional soil was based on field screening results.
<del></del>
Soils at Limit of Excavation: Four soil samples were collected for field screening with the OVM, and three confirmation soil samples
(ANN99SS002Q01 through ANN99SS002Q03) were collected for offsite laboratory analysis from the excavation bottom and side walls as shown in Figure 3. One soil sample (ANN99TS002Q01) was collected for total lead analysis. Remaining soils are below MIC clean up criteria.
Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to Building 102 for heating oil storage.
Deficación de la ripling and Dispensers. Two applicables the tank was installed adjacent to building 102 for heating oil storage.
Stockpiles: Petroleum contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for offsite transportation, treatment, and disposal. Containered soil was sampled before shipping off site; analytical results are attached. Fuel affected soil

FAA Tank Number: UST 53B (SOW C-3 reference) ADEC Tank Number:

Non Regulated UST Site and Facility:

Annette Island Former FAA Facility

Annette Island, Alaska

was sent to TPS Technologies, Inc., 2800 - 104th Street Court, South, Lakewood, WA 98444 (ANN38). A soil recycling certificate is attached. Lead

affected soil was sent to Chem Waste Management of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33)

Groundwater: Groundwater was encountered approximately 5.5 feet bgs. Floating product was observed on the surface. Groundwater

will be collected during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: UST 53B (SOW C-3 reference)

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

	RES	

Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tanks in the living quarters
area
Release Notification: _Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on September 29, 1999, at 0900 hours. A copy of
the
release notification is attached.
Initial Abatement Actions The soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned. Approximately
15—20 cubic yards of potentially contaminated soil was removed and containerized for offsite transportation and disposal.
Release Investigation Report: MIC soil cleanup levels were reached. However, a release investigation is required due to the observed
presence of Ifoating product on the groundwater. The lack of soil contamination could mean that the peroleum observed may have come from a
source other than this heating oil tank.
Corrective Action: Pending the results of a release investigation.
Corrective Action: Pending the results of a release investigation.
Hazard Banking Summary and Soaras N/A
Hazard Ranking Summary and Score: <u>N/A</u>
Corrective Action Blan Summary and Status. Dending the regults of a release investigation
Corrective Action Plan Summary and Status: Pending the results of a release investigation.

DA	TA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
1.	Were samples analyzed for requested parameters?	?		
2.	Is the ADEC Data Deliverables package complete?	?		
3.	Were samples extracted within holding time acceptance criteria?	?		
4.	Were samples analyzed within holding time acceptance criteria?	?		
5.	For soils, were sample results reported on a "dry weight" basis?	?		
6.	Were method blanks analytes all reported as ND?	?		
7.	For water, were trip blank analytes all reported as ND?			?
8.	Are the surrogate percent recoveries within acceptance criteria?		?	
9.	Are the matrix spike percent recoveries within acceptance criteria?	?		
10.	Are the matrix spike relative percent differences within acceptance criteria?	?		
11.	Are the field duplicate relative percent differences less than 50 percent?			?
	mments: Surrogate recovery for sample ANN99SS002Q02 was outside of control limits.			
Dat Rev	e:viewer:			

CH2-OH

Approved by: \_\_\_\_\_

### **UST DECOMMISSIONING ASSESSMENT**

Rev. 5/24

FAA Tank Number: UST 53C (SOW C-3 reference) **ADEC Tank Number:** Non Regulated UST Annette Island Former FAA Facility Site and Facility: Annette Island, Alaska Tank Property Department of Interior, BIA Federal Aviation Administration Owner: P.O. Box 25520 Owner/Operator: 222 West Seventh Avenue, #14 Juneau, AK 99802 Anchorage, Alaska 99513-7587 **UST Location:** Former FAA Living Quarters Area, Building 103. **Legal Description:** Section 5, T078S, R092E, Copper River Meridian Latitude and Longitude: 55:07' N Latitude, 131:34' Longitude **Decommissioning** Dave Hodgdon, CH2-OH Witnesses: Matt Flynn, CH2-OH, UST #AK507 Assessment (Qualified individual per 18 AAC 78.995[87]) Supervisor: Peter Henderson, CH2-OH Melvin Bryant, CH2-OH SITE DESCRIPTION AND CLIMATE Average Annual Precipitation: 115 Average July Temp.: 44 inches **Average** 35 January Temp.: <5 Estimated Depth to Groundwater: feet Type of Backfill (unified class.): Inorganic pit run from local quarry. Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level Surface Cover: Surface cover at the tank site was 12 inches of gravel. Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary. swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine. Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve that is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site. Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences. Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately Water Quality: 4 miles north of the former FAA facility. Location of Wells at or Near Site: None reported. Location of Underground Utilities at Site: A 1-1/4-inch copper water line was damaged during tank removal operations. Field crews controlled the flow of water from the line by pinching the end shut and contacted the Metlakatla Water Company. A crew was dispatched to repair the damaged water line.

Site Access:	The former FAA housing	area is accessible by	an unsecured grav	el road east of Butterfly	v Avenue.
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Climatological Conditions During Assessment: sunny, 50°F

FAA Tank Number: <u>UST 53C (SOW C-3 reference)</u>

ADEC Tank Number: Site and Facility:

Non Regulated UST

Annette Island Former FAA Facility

TANK INFORMATION			
Product Stored: heating oil	Tank Capacit	y: 1000 gallons	
Year Installed: 10/49	Length: 10 feet	Diameter: 5 feet	
Wall Construction Type: XX Construction Material: XX Protective Outer Coating: Other:	Single Wall Steel Asphalt Res	Double Wall Fiberglass sin FiberglassX	X None
Cathodic Protection: XX Overfill Protection: XX	_ No	Yes	Unknown Unknown
Number and Size of Tank Penetrations: Four 2-incl	n bungs on the top surface of the tal	nk. Bungs were used for vent, fill, feed,	and return
Date of Last Integrity Test: unknown	Type of Integrity Test:	N/A	
Historical Leaks or Inventory Discrepancy:			None reported.
Review of Inventory and Repair Records: None rep	ported.		
Tank Cleaning and Disposal: Following (2) and (3) of September 29, 1999, and moved to a designated decontar pieces with an acetylene/oxygen torch and cleaned. The organization of the content of the con	nination area near the former school	building foundation and later cut into ma	anageable
Tank Bottoms Quantity and Disposal: : Approximately 734	y 20 gallons of off spec. diesel was r	emoved and sent to Burlington Environr	mental, Inc.,
South Lucile Street, Seattle, WA 98108 (ANN32b)			
Tank Inspection Notes:Tank was slightly rusted wi	th no visible signs of cracks, leaks,	or holes.	
Piping Notes: Not applicable.			

FAA Tank Number: UST 53C (SOW C-3 reference)

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

EΧ			

Excavation Notes: The tank was excavated with shovels and a backhoe on September 29, 1999. The final dimensions of the excavation area were approximately 7 feet wide, 15 feet long, and 6 feet below ground surface (bgs). The top of the tank was approximately 12 inches bgs. The bottom of
the tank was approximately 6 feet bgs.
Soil Conditions: Topsoil consisted of sand and gravel. Clay was encountered at an approximate depth of 4 feet bgs.
Croundwater Conditional Croundwater was accountared at an approximate doubt of 4 fact has A fuel shoop was present on the surface
Groundwater Conditions: Groundwater was encountered at an approximate depth of 4 feet bgs. A fuel sheen was present on the surface.
Thermal Conditions: The soil was unfrozen to the limits of the excavation.
ENVIRONMENTAL SCREENING
Screening Instrument(s):Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial
Scientific Corporation HMX 271 LEL/O2 Meter
Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.
Summary of Results:
Soils Near Tank Penetrations: There was no apparent staining of soils above the tank.
Soils Excavated as Required for Tank Removal: Approximately 10 cubic yards of soil was excavated during tank removal operations. 2 CY of topsoil contaminated with lead paint chips from the adjacent house were excavated and placed into a roll-off shipping container for off-site
transportation and disposal on Spetember 27, 1999. Analytical results revealed the presence of lead in the remaining soils at concentations above
the MIC cleanup level. An additional 6 cubic yards of lead paint chip contaminated soils were removed on October 6, 1999,
Soils After Tank Removal: Approximately 7 additional cubic yards of fuel contaminated soil was excavated following tank removal operations. The
decision to excavate additional soil was based on field screening results.
Soils at Limit of Excavation: Six soil samples were collected for field screening with the OVM, and five confirmation soil samples (including one quality control duplicate) (ANN99SS003Q01 through ANN99SS003Q05) were collected for offsite laboratory analysis from the excavation bottom and
side walls as shown in Figure 3. One soil sample (ANN99TS003Q01) was collected for total lead analysis. Remaining soils are above MIC clean up criteria for DRO.
Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to Building 103 for heating oil storage.
Stockpiles: Petroleum-contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for
offsite transportation and disposal. Containerized soil was sampled before shipment; analytical results are attached. Fuel affected soil was sent to

FAA Tank Number: <u>UST 53C (SOW C-3 reference)</u>

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

Annette Island, Alaska

TPS Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN39). A soil recycling certificate is attached. Lead affected

was sent to Chem Waste Management of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33)

**Groundwater:** Groundwater was encountered during tank removal operations and had been impacted by leaking/spilled fuel. Groundwater samples will be collected during the schedulded release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number:

UST 53C (SOW C-3 reference)

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

RELEASE RESPONSE
Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank.
Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on October 1, 1999, at 1530 hours.  A copy of the release notification is attached.
Initial Abatement Actions The soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned. Approximately 7 cubic yards of fuel affected soil was removed and containerized for offsite transportation and disposal.
Release Investigation Report: MIC cleanup levels were not met. A release investigation is scheduled for the summer of 2000.
Corrective Action: Pending the results of a release investigation.
Hazard Ranking Summary and Score: N/A
Corrective Action Plan Summary and Status: Pending the results of a release investigation.

DA <sup>*</sup>	TA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required			
1.	Were samples analyzed for requested parameters?	?					
2.	Is the ADEC Data Deliverables package complete?	?					
3.	Were samples extracted within holding time acceptance criteria?	?					
4.	Were samples analyzed within holding time acceptance criteria?	?					
5.	For soils, were sample results reported on a "dry weight" basis?	?					
6.	Were method blanks analytes all reported as ND?	?					
7.	For water, were trip blank analytes all reported as ND?			?			
8.	Are the surrogate percent recoveries within acceptance criteria?		?				
9.	Are the matrix spike percent recoveries within acceptance criteria?	?					
10.	Are the matrix spike relative percent differences within acceptance criteria?	?					
11.	Are the field duplicate relative percent differences less than 50 percent?			?			
Comments:  8. Surrogate recovery during DRO analysis in the method blank (33%) was outside of control limits (50-130%).  Surrogate recovery for sample ANN99SS003Q03 was not quantified because of the required dilution for DRO analysis.							
_							
Dat Rev	e: /iewer:						

CH2-OH

Approved by: \_\_\_\_\_

### AST DECOMMISSIONING ASSESSMENT

Rev. 5/24

FAA Tank Number: AST 53D (SOW C-3 reference) **ADEC Tank Number:** Non Regulated AST Annette Island Former FAA Facility Site and Facility: Annette Island, Alaska Tank Property Department of Interior, BIA Metlakatla Indian Community Owner: P.O. Box 25520 Owner/Operator: P.O. Box 8 Juneau, AK 99802 Metlakatla, Alaska 99926 AST Location: Former FAA Living Quarters Area, Building 103 **Legal Description:** Section 5, T078S, R092E, Copper River Meridian Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude **Decommissioning** Dave Hodgdon, CH2-OH Witnesses: Matt Flynn, CH2-OH, UST #AK507 Assessment (Qualified individual per 18 AAC 78.995[87]) Supervisor: Peter Henderson, CH2-OH Melvin Bryant, CH2-OH SITE DESCRIPTION AND CLIMATE Average Annual Precipitation: 115 44 inches Average July Temp.: Average January Temp.: Estimated Depth to Groundwater: <5 Type of Backfill (unified class.): Inorganic pit run from local quarry. **Site Geology and Hydrogeology:** Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level. Surface Cover: AST 53D was on a gravel pad. Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine. Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve that is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site. Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences. Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility. Location of Wells at or Near Site: None reported. Location of Underground Utilities at Site: Water service lines and overhead power lines are present in the Living Quarters Area but none were encountered at this tank site.

> CH2-OH Revision No. 0

Site Access: The former FAA housing area is accessible by an unsecured gravel road east of Butterfly Avenue.

Climatological Conditions During Assessment: heavy rain, wind, 40°F

UST 53D (SOW C-3 reference) FAA Tank Number: **ADEC Tank Number:** 

Non Regulated AST

Site and Facility:

Annette Island Former FAA Facility

TANK INFORMATION		
Product Stored: heating oil	Tank Capacity:	1,650 gallons
Year Installed: unknown	Length: 10 feet	Diameter: 5 feet
Wall Construction Type:  Construction Material:  Protective Outer Coating:  Other:	Single Wall Steel Asphalt Resin	Double Wall Fiberglass Fiberglass <u>XX</u> None
Cathodic Protection: XX Overfill Protection: XX	No	Yes Unknown Yes Unknown
Number and Size of Tank Penetrations: Four 2-inch bung with a 1-inch gate valve on the east bulkhead of the tan		used for vent, fill, feed, and return lines; one 2-inch
Date of Last Integrity Test: unknown	Type of Integrity Test: <u>N</u>	Ά
Historical Leaks or Inventory Discrepancy:		None reported.
Review of Inventory and Repair Records: None report	ted.	
Tank Cleaning and Disposal:  The tank was removed of tank was removed of the tank was removed of tank was removed of the tank	•	
(3) of Section (X)-160 of MIC Underground Storage Tank Regrecycling.		
Tank Bottoms Quantity and Disposal: : Approximately 2: 734 South	0 gallons of off-spec. diesel was rer	noved and sent to Burlington Environmental, Inc.,
Lucile Street, Seattle, WA 98108 (ANN32b).		
Tank Inspection Notes: Tank had no visible signs of c	racks, leaks, or holes.	
Piping Notes: Not applicable.		

FAA Tank Number: <u>UST 53D (SOW C-3 reference)</u>

ADEC Tank Number: Non Regulated AST

Site and Facility: Annette Island Former FAA Facility

Annette Island, Alaska

EXCAVATION
Excavation Notes: .A backhoe was used to remove approximately 2 cubic yards of soil from beneath the former location of the AST. The final dimensions of the excavation area were approximately 7 feet long, 5 feet wide, and 2 feet deep. The soil was excavated because it was contaminated
with chips of lead paint from the adjacent house.
Soil Conditions: The topsoil consisted of sand and gravel.
Groundwater Conditions: <u>N/A</u>
Thermal Conditions: <u>N/A</u>
ENVIRONMENTAL SCREENING
Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial
Scientific Corporation HMX 271 LEL/O2 Meter
Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.
Summary of Results:
Soils Near Tank Penetrations: There was no apparent staining of soils beneath the tank.
Soils Excavated as Required for Tank Removal: Not applicable.
Soils After Tank Removal: Approximately 2 cubic yards of soil was excavated beneath the tank because the soil was contaminated with chips of lead paint from the adjacent house.
Soils at Limit of Excavation: Five soil samples were collected beneath the former location of the tank for field screening with the OVM, and four confirmation soil samples (ANN99SS010Q01 through ANN99SS010Q04) were collected for offsite laboratory analysis as shown in Figure 3.  Two soil samples (including one quality control duplicate) (ANN99TS010Q01 and ANN99TS011Q01) were collected for total lead analysis at an approved offsite laboratory. The remaining soils meet the MIC clean up criteria for DRO and lead, however PAH results reveal a slight exceedance of the control of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the OVM, and four confirmation of the tank for field screening with the
the MIC clean up level for benzo(a)pyrene (0.13 mg/Kg) and benzo(b)fluoranthene (0.12 mg/Kg).
Soils Beneath Fuel Piping and Dispensers: Not applicable.
Stockpiles: Lead affected soil was sent to Chem Waste Management of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33)
Groundwater: Not applicable.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number:

UST 53D (SOW C-3 reference)

**ADEC Tank Number:** Non Regulated AST Site and Facility:

Annette Island Former FAA Facility

RELEASE RESPONSE
Release: Analytical results indicate there was probably a minor release at this site.
Release Notification: A release notification was not sent to MIC because field screening results indicated that the site was clean and the slight exceedances of cleanup levels was not observed until PAH results were receive from the lab.
Initial Abatement Actions Tank was removed and 2 cubic yards of soil was removed from beneath the tank.
Release Investigation Report: MIC cleanup levels were not reached at this site. A release investigation is scheduled for the summer of 2000 because of the slight exceedance of the MIC cleanup levels for benzo(a)pyrene (0.13 mg/Kg) and benzo(b)fluoranthene (0.12 mg/Kg).in the remaining soil.
Corrective Action: Pending the release investigation.
Hazard Ranking Summary and Score: Not applicable.
Corrective Action Plan Summary and Status: .Pending results of the release investigation.

FAA Tank Number: ADEC Tank Number: Site and Facility: UST 53D (SOW C-3 reference)

Non Regulated AST

Annette Island Former FAA Facility

Annette Island, Alaska

DATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required			
1. Were samples analyzed for requested parameters?	?					
2. Is the ADEC Data Deliverables package complete?	?					
3. Were samples extracted within holding time acceptance criteria?	?					
4. Were samples analyzed within holding time acceptance criteria?	?					
5. For soils, were sample results reported on a "dry weight" basis?	?					
6. Were method blanks analytes all reported as ND?	?					
7. For water, were trip blank analytes all reported as ND?			?			
8. Are the surrogate percent recoveries within acceptance criteria?		?				
9. Are the matrix spike percent recoveries within acceptance criteria?	?					
10. Are the matrix spike relative percent differences within acceptance criteria?	?					
11. Are the field duplicate relative percent differences less than 50 percent?			?			
8. The surrogate recovery for sample number ANN99SS010Q02 was outside of laboratory control limits or not calculated because of required dilution  during DRO analysis procedures. 4-Bromofluorobenzene (GRO analysis) surrogate recovery for samples ANN99SS010Q02,  ANN99SS010Q03, and ANN99SS010Q04 were outside of control limits.  11. The field duplicate relative percent difference for sample numbers ANN99TS010Q01 and ANN99TS011Q01 (total lead analysis) was 56.8%.						
Date: Reviewer:						

ANC/53D.DOC/ 993500016

### **UST DECOMMISSIONING ASSESSMENT**

Rev. 5/24

FAA Tank Number: UST 53E (SOW C-3 reference) ADEC Tank Number: Non Regulated UST Annette Island Former FAA Facility Site and Facility: Annette Island, Alaska Tank Property Department of Interior, BIA Federal Aviation Administration Owner: P.O. Box 25520 Owner/Operator: 222 West Seventh Avenue, #14 Juneau, AK 99802 Anchorage, Alaska 99513-7587 **UST Location:** Former FAA Living Quarters Area, Building 104. **Legal Description:** Section 5, T078S, R092E, Copper River Meridian Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude **Decommissioning** Dave Hodgdon, CH2-OH Witnesses: Matt Flynn, CH2-OH, UST #AK507 Assessment (Qualified individual per 18 AAC 78.995[87]) Supervisor: Peter Henderson, CH2-OH Melvin Bryant, CH2-OH SITE DESCRIPTION AND CLIMATE Average Annual Precipitation: 115 44 inches Average July Temp.: Average January Temp.: Estimated Depth to Groundwater: <5 Type of Backfill (unified class.): Inorganic pit run from local quarry. **Site Geology and Hydrogeology:** Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level. Surface Cover: UST 53E was covered with approximately 1-1/2 feet of gravel. Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine. Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve that is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site. Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences. Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility. Location of Wells at or Near Site: None reported. Location of Underground Utilities at Site: Water service lines and overhead power lines are present in the Living Quarters Area but none were encountered at this tank site.

Site Access: The former FAA housing area is accessible by an unsecured gravel road east of Butterfly Avenue.

Climatological Conditions During Assessment: cloudy, 40°F

FAA Tank Number: <u>UST 53E (SOW C-3 reference)</u>

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

TANK INFORMATIO	N					
Product Stored:	heating oil		Tai	nk Capacity:	800 gallons	
Year Installed:	10/49		Length: 10 feet		Diameter:	45 inches
Wall Construction Construction Mate Protective Outer C Other:	erial:	XX XX	Single Wall Steel Asphalt	Resin	Double Wall Fiberglass Fibergla	ass <u>XX</u> <b>No</b> ne
Cathodic Protection		XX XX	No No		Yes _ Yes _	Unknown Unknown
the	of Tank Penetrations:		- ·		sed for fill and return lines	s; two 1-inch bungs on
top surface of the ta	ank used for vent and sup	oly lines; one z	24-inch boited manway	/ nange		
Date of Last Integ	rity Test: unknown		Type of Integrity	/ Test: N/A		
Historical Leaks o	r Inventory Discrepanc	y:				None reported.
Review of Invento	ry and Repair Records:	None repor	rted.			
school building found	I Disposal:The tank dation and later cut into m Storage Tank Regulation:	anageable pie	ces with an acetylene/	oxygen torch ar	nd cleaned following (2) a	nd (3) of Section (X)-160
	antity and Disposal: : Ap eet, Seattle, WA 98108 (A		gallons of off-spec. d	esel was remov	red and shipped to Burling	gton Environmental, Inc.,
Tank Inspection N	lotes: Seven corrosion top surface of the tank, b				ne tank. Several corrosion	n holes were reported as
Piping Notes:	Not applicable.					
Water Removal:	Approximately 800 gallons			nk. It was treate	ed by Granular Activated	Carbon (GAC) filter,

FAA Tank Number: <u>UST 53E (SOW C-3 reference)</u>

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

Annette Island, Alaska

# **EXCAVATION**

Excavation Notes: The tank was excavated with shovels and a backhoe on October 2, 1999. The final dimensions of the excavation area were
approximately 7 feet wide, 15 feet long, and 6 feet below ground surface (bgs). The top of the tank was exposed at the ground surface. The bottom
of
the tank was approximately 4 feet bgs.
and talk that approximately theorego.
Soil Conditions: Topsoil consisted of sand and gravel. Clay was encountered at an approximate depth of 4 feet bgs.
Son Conditions. Topodi consisted of saind and graver. Olay was encodinered at an approximate deput of 4 feet bys.
Once destant and the second section of the section of the second section of the section of the second section of the section of the second section of the second section of the section
Groundwater Conditions: Groundwater was encountered at an approximate depth of 4 feet bgs. Floating fuel product was present on the
surface.
Thermal Conditions: The soil was unfrozen to the limits of the excavation.
ENVIRONMENTAL SCREENING
Screening Instrument(s):Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial
Scientific Corporation HMX 271 LEL/O2 Meter
Scientific Corporation Friends 27 i EED/OZ Ivietei
Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of
analytical results is attached.
Summary of Results:
Soils Near Tank Penetrations: There was no apparent staining of soils above the tank.
Soils Excavated as Required for Tank Removal: Ten cubic yards of soil were excavated during tank removal operations 2 CY of topsoil
contaminated with lead paint chips from the adjacent house were excavated and placed into a roll-off shipping container for off-site transportation
and
disposal (ANN33)
Soils After Tank Removal: Approximately 24 additional cubic yards of fuel-contaminated soil was excavated following tank removal
operations.
The decision to excavate additional soil was based on field screening results.
<b>y</b>
Soils at Limit of Excavation: Five soil samples were collected for field screening with the OVM, and four confirmation soil samples (including one
quality control duplicate) (ANN99SS004Q01, ANN99SS004Q02, ANN99SS004Q04, and ANN99SS004Q05) were collected for offsite laboratory
analysis from the excavation bottom and side walls as shown in Figure 3. One soil sample (ANN99TS004Q01) was collected for total lead analysis
Remaining soils are above MIC cleanup criteria for DRO.
Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to Building 104 for heating oil storage.
Stockpiles: Petroleum- contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for
offsite transportation, treatment, and disposal. Containerized soil was sampled before shipment; analytical results are attached. Fuel affected soil
Was
sent to TPS Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN44). A soil recycling certificate is attached. Lead
affected soil was sent to Chem Waste Management of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33)

FAA Tank Number: <u>UST 53E (SOW C-3 reference)</u>

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

Annette Island, Alaska

**Groundwater:** Groundwater was encountered approximately 4 feet bgs. Floating product was observed on the surface. Groundwater samples will

be collected during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number:

UST 53E (SOW C-3 reference)
Non Regulated UST

ADEC Tank Number: Site and Facility:

Annette Island Former FAA Facility

RELEASE RESPONSE
Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank.
Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on October 4, 1999, at 1200 hours. A copy of the release notification is attached.
Initial Abatement ActionsThe soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned.
Approximately 24 cubic yards of potentially contaminated soil was removed and containerized for offsite transportation and disposal.
Release Investigation Report: MIC cleanup levels were not reached at this site. A release investigation is scheduled for the summer of 2000.
Corrective Action: N/A
Hazard Ranking Summary and Score: N/A
Corrective Action Plan Summary and Status: Pending the results of a release investigation.

DA	TA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)			Not
		Yes	No	Required
1.	Were samples analyzed for requested parameters?	?		
2.	Is the ADEC Data Deliverables package complete?	?		
3.	Were samples extracted within holding time acceptance criteria?	?		
4.	Were samples analyzed within holding time acceptance criteria?	?		
5.	For soils, were sample results reported on a "dry weight" basis?	?		
6.	Were method blanks analytes all reported as ND?	?		
7.	For water, were trip blank analytes all reported as ND?			?
8.	Are the surrogate percent recoveries within acceptance criteria?		?	
9.	Are the matrix spike percent recoveries within acceptance criteria?	?		-
10.	Are the matrix spike relative percent differences within acceptance criteria?	??		
11.	Are the field duplicate relative percent differences less than 50 percent?			?
0-				
8.	mments:  4-Bromofluorobenzene (GRO analysis) surrogate recovery for samples ANN99SS004Q01, AN	N99SS004O02	ANN99SS004O04	
<u>v.                                    </u>	and ANN99SS004Q05 were outside of control limits due to matrix interference. Surrogate rec			
	ANN99SS004Q01, ANN99SS004Q04, and ANN99SS004Q05 were outside of control limits be		-	
	because of required dilution. Surrogate recovery during RRO analysis for samples ANN99SS			
	ANNOGOGO	004Q01, ANN999		COUT QUT, and
11	The field duplicate relative percent difference for DRO analysis was 113%.			
<u></u>	The field deprivate relative persons difference for DIVO diffuyers was 11070.			
Dat	te·			
	viewer:			

CH2-OH

Approved by: \_\_\_\_\_

### **UST DECOMMISSIONING ASSESSMENT**

Rev. 5/24

FAA Tank Number: UST 53F (SOW C-3 reference) ADEC Tank Number: Non Regulated UST Annette Island Former FAA Facility Site and Facility: Annette Island, Alaska Tank Property Department of Interior, BIA Federal Aviation Administration Owner: P.O. Box 25520 Owner/Operator: 222 West Seventh Avenue, #14 Juneau, AK 99802 Anchorage, Alaska 99513-7587 **UST Location:** Former FAA Living Quarters Area, Building 105 **Legal Description:** Section 5, T078S, R092E, Copper River Meridian Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude **Decommissioning** Dave Hodgdon, CH2-OH Witnesses: Matt Flynn, CH2-OH, UST #AK507 Assessment (Qualified individual per 18 AAC 78.995[87]) Supervisor: Peter Henderson, CH2-OH Melvin Bryant, CH2-OH SITE DESCRIPTION AND CLIMATE Average Annual Precipitation: 115 44 inches Average July Temp.: Average January Temp.: Estimated Depth to Groundwater: <5 Type of Backfill (unified class.): Inorganic pit run from local quarry. **Site Geology and Hydrogeology:** Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level. Surface Cover: UST 53F was covered with approximately 1-1/2 feet of gravel. Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine. Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve that is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site. Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences. Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility. Location of Wells at or Near Site: None reported.

Location of Underground Utilities at Site: Water service lines and overhead power lines are present in the Living Quarters Area. A 1-1/4-inch copper water line was damaged during tank removal operations. Field crews controlled the flow of water from the line by pinching the end shut and

contacted the Metlakatla Water Company. A crew was dispatched to the site to repair the damaged water line.

CH2-OH Revision No. 0 Site Access: The former FAA housing area is accessible by an unsecured gravel road east of Butterfly Avenue.

Climatological Conditions During Assessment: sunny, 50°F

FAA Tank Number: UST 53F (SOW C-3 reference) **ADEC Tank Number:** 

Non Regulated UST

Site and Facility:

Annette Island Former FAA Facility

TANK INFORMATION		
Product Stored: heating oil	Tank Capacity:	800 gallons
Year Installed: 10/49	Length: 10 feet	Diameter: 45 inches
Wall Construction Type:  Construction Material:  Protective Outer Coating:  Other:	Single Wall Steel Asphalt Resin	Double Wall Fiberglass FiberglassXX None
Cathodic Protection: XX Overfill Protection: XX	No	Yes Unknown Yes Unknown
he op surface of the tank used for vent and feed lines; one 24-i Date of Last Integrity Test: unknown	inch bolted manway flange on the top  Type of Integrity Test: N/A	
Historical Leaks or Inventory Discrepancy:		None reported.
Review of Inventory and Repair Records: None report	ted.	
Tank Cleaning and Disposal: The tank was removed of the comment of	on September 29, 1999, and moved to	o a designated decontamination area near the
school building foundation and later cut into manageable pied of	ces with an acetylene/oxygen torch a	and cleaned following (2) and (3) of Section (X)-160
the MIC Underground Storage Tank Regulations. The cut tan	nk pieces were delivered to the Metlak	katla Quarry site for future recycling.
Fank Bottoms Quantity and Disposal: Approximately 30 of 734 South Lucile Street, Seattle, WA 98108 (ANN32a)		ed and shipped to Burlington Environmental, Inc.,
Fank Inspection Notes: Six corrosion holes were repo		Ce.
Piping Notes: Not applicable.		

FAA Tank Number: <u>UST 53F (SOW C-3 reference)</u>

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

Annette Island, Alaska

EX			

Excavation Notes: The tank was excavated with shovels and a backhoe on September 29, 1999. The final dimensions of the excavation area were
approximately 7 feet wide, 17 feet long, and 5.5 feet below ground surface (bgs). The top of the tank was approximately 12 inches bgs. The bottom of
the tank was approximately 5 feet bgs. Backfill of inorganic pit run from the local quarry was used.
Soil Conditions: Topsoil consisted of sands and gravel. Clay was encountered at an approximate depth of 4 feet bgs.
Groundwater Conditions: Groundwater was encountered at an approximate depth of 4 feet bgs. A fuel sheen was present on the surface.
Thermal Conditions: The soil was unfrozen to the limits of the excavation.
ENVIRONMENTAL SCREENING
Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial Scientific Corporation HMX 271 LEL/O2 Meter
Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.
Summary of Results:
Soils Near Tank Penetrations: There was no apparent staining of soils above the tank.
Soils Excavated as Required for Tank Removal: Approximately 10 cubic yards of soil were excavated during tank removal operations. 2 CY of topsoil contaminated with lead paint chips from the adjacent house were excavated and placed into a roll-off shipping container for off-site transportation and disposal (ANN33)
Soils After Tank Removal:  Approximately 5 additional cubic yards of potentially fuel contaminated soil were excavated following tank removal operations. The decision to excavate additional soil was based on field screening results.
Soils at Limit of Excavation: Six soil samples were collected for field screening with the OVM, and four confirmation soil samples (ANN99SS005Q01
through ANN99SS005Q04) were collected for offsite laboratory analysis from the excavation bottom and side walls as shown in Figure 3. One soil
sample (ANN99TS005Q01) was collected for total lead analysisRemaining soils are above MIC cleanup criteria for DRO.
Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to Building 105 for heating oil storage.
Stockpiles: Petroleum-contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for

offsite transportation, treatment, and disposal (ANN40). Containerized soil was sampled before shipping, analytical results are attached. . Fuel

soil was sent to TPS Technologies, Inc., 2800 - 104th Street Court, South, Lakewood, WA 98444 (ANN44). A soil recycling certificate is attached.

FAA Tank Number: <u>UST 53F (SOW C-3 reference)</u>

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

Annette Island, Alaska

Lead affected soil was sent to Chem Waste Management of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33).

**Groundwater:** Groundwater was encountered during tank removal operations and had been impacted by leaking/spilled fuel product.

Groundwater samples will be collected during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

UST 53F (SOW C-3 reference)

ADEC Tank Number: Nor Site and Facility: Ann

Non Regulated UST
Annette Island Former FAA Facility

RELEASE RESPONSE
Release: Contamination created by historical leaks/spills associated with the operation of the underground storage tank.
Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on October 1, 1999, at 1530 hours. A copy of the
release notification is attached.
Initial Abatement Actions _The soil around the tank was removed, and the tank was removed, cleaned, and decommissioned. Approximately
5 cubic yards of fuel contaminated soil was removed and containerized for offsite transportation and disposal.
Release Investigation Report: MIC cleanup levels were not reached at this site. A release investigation is scheduled for the summer of 2000.
Corrective Action: Pending the results of a release investigation.
Hazard Ranking Summary and Score: N/A
Corrective Action Plan Summary and Status: Pending the results of a release investigation.
,

DA	TA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
1.	Were samples analyzed for requested parameters?	?		_
2.	Is the ADEC Data Deliverables package complete?	?		
3.	Were samples extracted within holding time acceptance criteria?	?		
4.	Were samples analyzed within holding time acceptance criteria?	??		
5.	For soils, were sample results reported on a "dry weight" basis?	?		_
6.	Were method blanks analytes all reported as ND?	?		
7.	For water, were trip blank analytes all reported as ND?			?
8.	Are the surrogate percent recoveries within acceptance criteria?		?	
9.	Are the matrix spike percent recoveries within acceptance criteria?	?		
10.	Are the matrix spike relative percent differences within acceptance criteria?	?		
11.	Are the field duplicate relative percent differences less than 50 percent?			?
	mments: Surrogate recovery for sample ANN99SS005Q01 was outside of control limits because of mat	rix interference.		
Dat Re	e:  /iewer:			

CH2-OH

Approved by: \_\_\_\_\_

# **UST DECOMMISSIONING ASSESSMENT**

Rev. 5/24

FAA Tank Number: UST 53G (SOW C-3 reference) ADEC Tank Number: Non Regulated UST Site and Facility: Annette Island Former FAA Facility Annette Island, Alaska Tank Property Department of Interior, BIA Federal Aviation Administration Owner: P.O. Box 25520 Owner/Operator: 222 West Seventh Avenue, #14 Juneau, AK 99802 Anchorage, Alaska 99513-7587 **UST Location:** Former FAA Living Quarters Area, Building 106 **Legal Description:** Section 5, T078S, R092E, Copper River Meridian Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude **Decommissioning** Dave Hodgdon, CH2-OH Witnesses: Matt Flynn, CH2-OH, UST #AK507 Assessment (Qualified individual per 18 AAC 78.995[87]) Supervisor: Peter Henderson, CH2-OH Melvin Bryant, CH2-OH SITE DESCRIPTION AND CLIMATE Average Annual Precipitation: 115 44 inches Average July Temp.: Average January Temp.: Estimated Depth to Groundwater: <5 Type of Backfill (unified class.): Inorganic pit run from local quarry. **Site Geology and Hydrogeology:** Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level. Surface Cover: UST 53G was covered with approximately 24 inches of gravel. Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine. Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve that is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site. Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences. Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility. Location of Wells at or Near Site: None reported. Location of Underground Utilities at Site: Water service line and overhead power lines are present in the Living Quarters Area but none were encountered at this tank site.

Climatological Conditions During Assessment: sunny, 50°F

Site and Facility:

UST 53G (SOW C-3 reference)

**ADEC Tank Number:** 

Non Regulated UST

Annette Island Former FAA Facility

TANK INFORMATIO	ON							
Product Stored:	heating oil			Tank Cap	pacity:	800 gallons		
Year Installed:	7/50		Length: 1	0 feet		Diameter:	40 inc	hes
Wall Construction Construction Mate Protective Outer C Other:	erial:	XX XX	Single Wall Steel Asphalt	_ 	Resin	Double Wall Fiberglass Fiber	glass	XX None
Cathodic Protection		XX XX	No No			res res		Unknown Unknown
Number and Size lines	of Tank Penetrations:	four 2-inch bu	ngs on the top s	surface of the	e tank—bı	ungs were used for v	ent, fill, s	supply, and return
Date of Last Integ	rity Test: unknown		Type of Int	egrity Test:	: <u>N</u> /A			
Historical Leaks o	or Inventory Discrepanc	y:						None reported
Review of Invento	ory and Repair Records:	: None report	ted.					
Tank Cleaning and former	d Disposal: The tank	was removed o	n September 30	), 1999, and r	moved to a	a designated deconta	mination_	area near the
-	dation and later cut into m	anageable pied	ces with an acet	ylene/oxyger	n torch and	d cleaned following (2	2) and (3)	of Section (X)-160
of MIC Underground S	Storage Tank Regulations.	The cut tank pi	eces were delive	ered to the M	letlakatla (	Quarry site for future	ecycling.	•
	antity and Disposal: <u>A</u> reet, Seattle, WA 98108.	oproximately 30	gallons of off-s	pec. diesel w	vas remov	red and shipped to Bu	ırlington l	Environmental, Inc.,
Tank Inspection N					e tank sur	face. Five corrosion l	noles we	re discovered on
east end of the tank	. One corrosion hole was	discovered on	the west end of	the tank.				
Piping Notes: _	Not applicable.							

FAA Tank Number: UST 53G (SOW C-3 reference)

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

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Excavation Notes: The tank was excavated with shovels and a backhoe on September 30, 1999. The final dimensions of the excavation area
were approximately 7 feet wide, 13 feet long, and 5 feet below ground surface (bgs). The top of the tank was approximately 24 inches bgs. The bottom of
the
tank was approximately 5 feet bgs. Inorganic pit run from a local quarry was used as backfill.
Soil Conditions: Topsoil consisted of sands and gravel. Clay was encountered approximately 5 feet bgs.
Groundwater Conditions: Groundwater was encountered at an approximate depth of 4 feet bgs. A heavy fuel product was present on the surface.
Thermal Conditions: The soil was unfrozen to the limits of the excavation.
ENVIRONMENTAL SCREENING
Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial
Scientific Corporation HMX 271 LEL/O2 Meter
Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.
Summary of Results:  Soils Near Tank Penetrations: There was no apparent staining of soils above the tank.
Soils Excavated as Required for Tank Removal: Approximately 5 cubic yards of soil were excavated during tank removal operations. 2 CY of topsoil contaminated with lead paint chips from the adjacent house were excavated and placed into a roll-off shipping container for off-site
transportation and disposal (ANN33)
Soils After Tank Removal: Approximately 11 additional cubic yards of fuel-contaminated soil were excavated following tank removal
operations. The decision to excavate additional soil was based on field screening results.
Soils at Limit of Excavation: Six soil samples were collected for field screening with the OVM, and four confirmation soil samples (ANN99SS006Q01
through ANN99SS006Q04) were collected for offsite laboratory analysis from the excavation bottom and side walls as shown in Figure 3. One soil
sample (ANN99TS006Q01) was collected for total lead analysis.Remaining soils are above MIC cleanup criteria for DRO.
Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to Building 106 for heating oil storage.
Stockpiles: Petroleum-contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for offsite transportation, treatment, and disposal. Containerized soil was sampled and the analytical results are attached. Fuel affected soil was sent to

FAA Tank Number: <u>UST 53G (SOW C-3 reference)</u>

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

Annette Island, Alaska

TPS Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN41). A soil recycling certificate is attached. Lead affected

was sent to Chem Waste Management of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33).

**Groundwater:** Groundwater was encountered approximately 4 feet bgs. Floating product was observed on the surface.

Groundwater will be sampled during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

Site and Facility:

UST 53G (SOW C-3 reference)

ADEC Tank Number: Non Regulated UST

Annette Island Former FAA Facility

RELEASE RESPONSE
Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank.
Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on October 20, 1999, at 0930 hours. A copy of the
release investigation is attached.
Initial Abatement Actions The soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned.
Approximately 11 cubic yards of potentially contaminated soil was removed and containerized for offsite transportation and disposal.
Topproximatory 11 dable yarde or petermany contaminated con was removed and contamentation check transportation and disposal.
Release Investigation Report: MIC cleanup levels were not reached at this site. A release investigation is scheduled for the summer of 2000.
Corrective Action: Pending the results of a release investigation.
Hazard Ranking Summary and Score: N/A
Hazard Ranking Summary and Score: IVA
Corrective Action Plan Summary and Status: Pending the results of a release investigation.

DAT	TA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
1.	Were samples analyzed for requested parameters?	?		
2.	Is the ADEC Data Deliverables package complete?	?		
3.	Were samples extracted within holding time acceptance criteria?	?		
4.	Were samples analyzed within holding time acceptance criteria?	?		
5.	For soils, were sample results reported on a "dry weight" basis?	?		
6.	Were method blanks analytes all reported as ND?	?		
7.	For water, were trip blank analytes all reported as ND?			?
8.	Are the surrogate percent recoveries within acceptance criteria?		?	
9.	Are the matrix spike percent recoveries within acceptance criteria?	?		
10.	Are the matrix spike relative percent differences within acceptance criteria?	?		
11.	Are the field duplicate relative percent differences less than 50 percent?			?
	nments:	- weight	al limite. O	
8.	4-Bromofluorobenzene (GRO analysis) surrogate recovery for sample ANN99SS006Q01 was during DRO analysis for samples ANN99SS006Q01, ANN99SS006Q02, and ANN99SS006Q03		_	-
	not calculated because of required dilution. Surrogate recovery during RRO analysis for sample		<u>-</u>	
	ANN99SS006Q03 was not calculated because of required dilution.	33711110300000	<u> </u>	00002, 0110
Dat	e:			
	riewer:			

CH2-OH

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# **UST DECOMMISSIONING ASSESSMENT**

Rev. 5/24

FAA Tank Number: UST 53H (SOW C-3 reference) ADEC Tank Number: Non Regulated UST Annette Island Former FAA Facility Site and Facility: Annette Island, Alaska Tank Property Department of Interior, BIA Federal Aviation Administration Owner: P.O. Box 25520 Owner/Operator: 222 West Seventh Avenue, #14 Juneau, AK 99802 Anchorage, Alaska 99513-7587 **UST Location:** Former FAA Living Quarters Area, Building 107. **Legal Description:** Section 5, T078S, R092E, Copper River Meridian Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude **Decommissioning** Dave Hodgdon, CH2-OH Witnesses: Matt Flynn, CH2-OH, UST #AK507 Assessment (Qualified individual per 18 AAC 78.995[87]) Supervisor: Peter Henderson, CH2-OH Melvin Bryant, CH2-OH SITE DESCRIPTION AND CLIMATE Average Annual Precipitation: 115 44 inches Average July Temp.: Average January Temp.: Estimated Depth to Groundwater: <5 Type of Backfill (unified class.): Inorganic pit run from local quarry. **Site Geology and Hydrogeology:** Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level. Surface Cover: UST 53H was covered with approximately 2-1/2 feet of gravel. Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine. Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve that is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site. Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences. Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility. Location of Wells at or Near Site: None reported. Location of Underground Utilities at Site: Water service lines and overhead power lines are present in the Living Quarters Area but none were encountered during excavation.

Site Access: The former FAA housing area is accessible by an unsecured gravel road east of Butterfly Avenue.

Climatological Conditions During Assessment: mostly cloudy, 45°F

UST 53H (SOW C-3 reference)

ADEC Tank Number: Site and Facility:

Non Regulated UST
Annette Island Former FAA Facility

TANK INFORMATION					
Product Stored: heating oil	Tank Capacity:	800 gallons			
Year Installed: 8/50	Length: 10 feet	Diameter: 46 inches			
Wall Construction Type: XX  Construction Material: XX  Protective Outer Coating:  Other:	Single Wall Steel Asphalt Resin	Double Wall Fiberglass FiberglassXX None			
Cathodic Protection: XX Overfill Protection: XX		/es Unknown /es Unknown			
Number and Size of Tank Penetrations: Four 2-inch bulines	ungs on the top surface of the tank. B	ungs were used for vent, fill, feed, and return			
Date of Last Integrity Test: unknown	Type of Integrity Test: N/A				
Historical Leaks or Inventory Discrepancy:		None reported.			
Review of Inventory and Repair Records: None reported	ed.				
Tank Cleaning and Disposal:The tank was removed on October 1, 1999, and moved to a designated decontamination area near the former school building foundation and later cut into manageable pieces with an acetylene/oxygen torch and cleaned following (2) and (3) of Section (X)-160 of MIC Underground Storage Tank Regulations. The cut tank pieces were delivered to the Metlakatla Quarry site for future recycling.					
Tank Bottoms Quantity and Disposal: Approximately 25 gallons of off-spec. diesel was removed and shipped to Burlington Environmental, Inc., 734					
South Lucile Street, Seattle, WA 98108					
Tank Inspection Notes:Tank was slightly rusted with no visible signs of cracks, leaks, or holes.					
Piping Notes: Not applicable.					

FAA Tank Number: UST 53H (SOW C-3 reference)

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

ΕX			

Excavation Notes: The tank was excavated with shovels and a backhoe on October 1, 1999. The final dimensions of the excavation area were
approximately 6 feet wide, 13 feet long, and 4.5. feet below ground surface (bgs). The top of the tank was approximately 24 inches bgs. The bottom
of
the tank was approximately 5.5 feet bgs. The excavation was lined with 10 mil poly and backfilled using inorganic pit run from a local quarry.
Soil Conditions: Topsoil consisted of sands and gravel. Clay was encountered at 5 feet bgs.
Groundwater Conditions: Groundwater was encountered at an approximate depth of 4 feet bgs. A fuel product sheen was present on the
surface.
Thermal Conditions: The soil was unfrozen to the limits of the excavation.
ENVIRONMENTAL SCREENING
Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial
Screening Instrument(s):
OSIONARIO GGIPGIALIGI. TIMIX EL TELLI DE MICLOI
Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of
analytical results is attached.
Summary of Results:
Soils Near Tank Penetrations: There was no apparent staining of soils above the tank.
Sons Wear Fairk Feffett ations. There was no apparent staining of sons above the talik.
Soils Excavated as Required for Tank Removal: Approximately 5 cubic yards of soil were excavated during tank removal operations 1.5 CY
<u>of</u>
topsoil contaminated with lead paint chips from the adjacent house were excavated and placed into a roll-off shipping container for off-site
transportation and disposal (ANNO)
transportation and disposal (ANN33)
Soils After Tank Removal: Approximately 11 additional cubic yards of fuel-contaminated soil were excavated following tank removal
operations. The decision to excavate additional soils was based on field screening results.
Soils at Limit of Excavation: Six soil samples were collected for field screening with the OVM, and five confirmation soil samples (including one
quality control duplicate) (ANN99SS007Q01 through ANN99SS007Q05) were collected for offsite laboratory analysis from the excavation bottom and
side walls as shown in Figure 3. One sample (ANN99TS007Q01) was collected for total lead analysis. Remaining soils are above MIC cleanup criteria
for DRO.
Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to Building 107 for heating oil storage.
Stockpiles: Petroleum contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for
offsite transportation, treatment, and disposal. Containerized soil was sampled before shipping; analytical results are attached. Fuel affected soil
was

FAA Tank Number: <u>UST 53H (SOW C-3 reference)</u>

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

Annette Island, Alaska

sent to TPS Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN42). A soil recycling certificate is attached. Lead affected soil was sent to Chem Waste Management of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33).

Groundwater: Groundwater was encountered at an approximate depth of 4 feet bgs. A fuel product sheen was present on the surface.

Groundwater samples will be collected during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: Non Regulated UST

UST 53H (SOW C-3 reference)

**ADEC Tank Number:** Site and Facility:

Annette Island Former FAA Facility

RELEASE RESPONSE
Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank.
Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on October 4, 1999, at 1200 hours. A copy of the release notification is attached.
Telease notification is attached.
Initial Abatement Actions The soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned.
Approximately 11 cubic yards of fuel contaminated soil was removed and containerized for offsite transportation and disposal.
Release Investigation Report: MIC cleanup levels were not reached at this site. A release investigation is scheduled for the summer of 2000.
Corrective Action: Pending the results of a release investigation.
T Chaing the results of a release investigation.
Hazard Ranking Summary and Score: N/A
Trazara Ranking Junimary and 30016. 197
Corrective Action Plan Summary and Status: Pending the results of a release investigation.
Corrective Action Fian Summary and Status. Femiling the results of a release investigation.

DATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	.,		Not
	Yes	No	Required
1. Were samples analyzed for requested parameters?	?		
2. Is the ADEC Data Deliverables package complete?	?		
3. Were samples extracted within holding time acceptance criteria?	?		
4. Were samples analyzed within holding time acceptance criteria?	?		
5. For soils, were sample results reported on a "dry weight" basis?	?		
6. Were method blanks analytes all reported as ND?	?		
7. For water, were trip blank analytes all reported as ND?			?
			'
8. Are the surrogate percent recoveries within acceptance criteria?		?	
·			-
9. Are the matrix spike percent recoveries within acceptance criteria?	9		
or the many opine person recovered minimages planted chieffa.	· ·		_
10. Are the matrix spike relative percent differences within acceptance criteria?	9		
To. Are the many spike relative personn americhoss within acceptance of terra.	<del></del>		
11. Are the field duplicate relative percent differences less than 50 percent?			2
11. Are the new duplicate relative percent differences less than 30 percent:			·
Comments:			
4-Bromofluorobenzene (GRO analysis) surrogate recovery for samples ANN99SS007Q03 and	I ANN99SS007	'Q04 was outside c	ontrol
limits because of matrix interference. Surrogate recovery during DRO analysis for samples ANN99S			
ANN99SS007Q03, ANN99SS007Q04, and ANN99SS007Q05 was outside of laboratory control limit	ts because of r	natrix interference of	or not calculated
because of required dilution. Surrogate recovery during RRO analysis for samples ANN99SS007Q0	1, ANN99SS00	7Q03, ANN99SS00	7Q04, and
ANN99SS007Q05 was not calculated because of required dilution.			
11. The field duplicate relative percent difference could not be calculated for anenaphthene (PAHs	s).		
Date:			
Reviewer:			

CH2-OH

Project No. 154116.E1.E8

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Approved by: \_\_\_\_\_

# **UST DECOMMISSIONING ASSESSMENT**

Rev. 2/24

**FAA Tank Number:** UST 53I (SOW C-3 reference) **ADEC Tank Number:** Non Regulated UST Annette Island Former FAA Facility Site and Facility: Annette Island, Alaska Tank Property Department of Interior, BIA Federal Aviation Administration Owner: P.O. Box 25520 Owner/Operator: 222 West Seventh Avenue, #14 Juneau, AK 99802 Anchorage, Alaska 99513-7587 **UST Location:** Former FAA Living Quarters Area, Building 108 **Legal Description:** Section 5, T078S, R092E, Copper River Meridian Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude **Decommissioning** Dave Hodgdon, CH2-OH Witnesses: Matt Flynn, CH2-OH, UST #AK507 Assessment (Qualified individual per 18 AAC 78.995[87]) Supervisor: Peter Henderson, CH2-OH Melvin Bryant, CH2-OH SITE DESCRIPTION AND CLIMATE Average Annual Precipitation: 115 Average July Temp.: 44 inches **Average** 35 January Temp.: <u>\_<</u>5 Estimated Depth to Groundwater: feet Type of Backfill (unified class.): Inorganic pit run from local quarry. Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level Surface Cover: UST 53I was covered with approximately 24 inches of gravel. Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary. swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine. Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve that is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site. Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences. Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately Water Quality: 4 miles north of the former FAA facility. Location of Wells at or Near Site: None reported. Location of Underground Utilities at Site: Water service lines and overhead power lines are present in the Living Quarters Area but none were encountered during excavation.

Site	Access.	The former FAA	housing area is	s accessible by a	n unsecured arave	el road east of Butterfly	Avenue
OILE A	~~~~~.		i ilousillu alba is	accessible by a	ili uliseculeu ulave	of Idad east of Dutterliv	Avenue.

Climatological Conditions During Assessment: mostly cloudy, 45°F

UST 53I (SOW C-3 reference)

ADEC Tank Number:

Site and Facility:

Non Regulated UST

Annette Island Former FAA Facility

TANK INFORMATION	ON					
Product Stored:	heating oil		Tank	Capacity:	800 gallons	
Year Installed:	9/50		Length: 10 feet		Diameter: 46	inches
Wall Construction Construction Mat Protective Outer ( Other:	erial:	XX	Single Wall Steel Asphalt	Resin	Double Wall Fiberglass Fiberglass	XX None
Cathodic Protection	****	XX XX	No _ No _	Ye	es	Unknown Unknown
Number and Size lines	of Tank Penetrations:	Four 2-inch I	oungs on the top surface	of the tank. Bu	ngs were used for vent, fi	ll, feed, and return
_	grity Test: unknown		Type of Integrity T			None reported.
	or Inventory Discrepanc ory and Repair Records:	·				попе геропеа.
school building four of	d Disposal:The tank ndation and later cut into m Storage Tank regulations.	anageable pie	ces with an acetylene/ox	ygen torch and	cleaned following (2) and	(3) of Section (X)-160
Tank Bottoms Qu South Lucile Street, Seatt	antity and Disposal: :A	pproximately 2	20 gallons of diesel was re	emoved and shi	pped to Burlington Enviror	nmental, Inc., 734
Tank Inspection I	Notes: Two corrosion	holes were dis	scovered on the bottom s	surface of the ta	nk. Six corrosion holes w	ere discovered on the
west end of the tan	k. Four corrosion holes we	ere discovered	on the east end of the ta	ınk.		
Piping Notes: _	Not applicable.					

Site and Facility:

UST 53I (SOW C-3 reference)

ADEC Tank Number:

Non Regulated UST

Annette Island Former FAA Facility

Annette Island, Alaska

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Excavation Notes: The tank was excavated with shovels and a backhoe on October 1, 1999. The final dimensions of the excavation area were approximately 9 feet wide, 16 feet long, and 6 feet below ground surface (bgs). The top of the tank was approximately 24 inches bgs. The bottom of
tank was approximately 6 feet bgs. Inorganic pit run from a local quarry was used for backfill.
Soil Conditions: Topsoil consisted of sands and gravel. Clay was encountered at an approximate depth of 5 feet bgs.
Groundwater Conditions: Groundwater was encountered at an approximate depth of 4 feet bgs. A fuel product sheen was present on the surface.
Thermal Conditions: The soil was unfrozen to the limits of the excavation.
ENVIRONMENTAL SCREENING
Screening Instrument(s):
Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.
Summary of Results:
Soils Near Tank Penetrations: There was no apparent staining of soils above the tank.
Soils Excavated as Required for Tank Removal: Approximately 10 cubic yards of soil was excavated during tank removal operations 8 CY of
topsoil contaminated with lead paint chips from the adjacent house were excavated and placed into a roll-off shipping container for off-site
transportation and disposal (ANN33)
Soils After Tank Removal: Approximately 11 additional cubic yards of fuel-contaminated soil was excavated following tank removal
operations. The decision to excavate additional soil was based on field screening results.
Soils at Limit of Excavation: Six soil samples were collected for field screening with the OVM, and four confirmation soil samples (ANN99SS008Q01
through ANN99SS008Q04) were collected for offsite laboratory analysis from the excavation bottom and side walls as shown in Figure 3.
One soil sample (ANN99SS008Q01) was collected for total lead analysis.Remaining soils are above MIC cleanup criteria for DRO.
Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to Building 108 for heating oil storage.

**Stockpiles**: Petroleum-contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for offsite transportation and disposal. Containerized soil was sampled and shipped, analytical results are attached. Fuel affected soil was sent to TPS

FAA Tank Number: UST 53I (SOW C-3 reference)

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

Annette Island, Alaska

Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN43). A soil recycling certificate is attached. Lead affected soil was

sent to Chem Waste Management of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33).

**Groundwater:** Groundwater was encountered approximately 4 feet bgs. A sheen was present on the surface. Groundwater will be sampled during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

UST 53I (SOW C-3 reference)

ADEC Tank Number: Site and Facility:

Non Regulated UST

Annette Island Former FAA Facility

RELEASE RESPONSE
Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank.
Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on October 4, 1999, at 1200 hours. A copy of the release notification is attached.
Initial Abatement Actions The soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned.
Approximately 11 cubic yards of contaminated soil was removed and containerized for offsite transportation and disposal.
Release Investigation Report: MIC cleanup levels were not reached at this site. A release investigation is scheduled for the summer of 2000.
Corrective Action: Pending the results of a release investigation.
Hazard Ranking Summary and Score: N/A
Corrective Action Plan Summary and Status: Pending the results of a release investigation.

DA	TA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
1.	Were samples analyzed for requested parameters?	??		
2.	Is the ADEC Data Deliverables package complete?	?		
3.	Were samples extracted within holding time acceptance criteria?	??		
4.	Were samples analyzed within holding time acceptance criteria?	?		
5.	For soils, were sample results reported on a "dry weight" basis?	?		
6.	Were method blanks analytes all reported as ND?	?		
7.	For water, were trip blank analytes all reported as ND?			?
8.	Are the surrogate percent recoveries within acceptance criteria?		?	
9.	Are the matrix spike percent recoveries within acceptance criteria?	?		
10	. Are the matrix spike relative percent differences within acceptance criteria?	?		
11	. Are the field duplicate relative percent differences less than 50 percent?			?
8.	Surrogate recovery during DRO analysis for samples ANN99SS008Q01, ANN99SS008Q02, A outside of laboratory control limits because of matrix interference or could not be calculated by during RRO analysis for samples ANN99SS008Q01 and ANN99SS008Q04 was not calculated.	ecause of require	ed dilution. Surrog	
_		•		
	te: viewer:			

# UST DECOMMISSIONING ASSESSMENT

Rev. 5/24

FAA Tank Number: UST 53J (SOW C-3 reference) ADEC Tank Number: Non Regulated UST Annette Island Former FAA Facility Site and Facility: Annette Island, Alaska Tank Property Department of Interior, BIA Federal Aviation Administration Owner: P.O. Box 25520 Owner/Operator: 222 West Seventh Avenue, #14 Juneau, AK 99802 Anchorage, Alaska 99513-7587 **UST Location:** Former FAA Living Quarters Area, Building 109 **Legal Description:** Section 5, T078S, R092E, Copper River Meridian Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude **Decommissioning** Dave Hodgdon, CH2-OH Witnesses: Matt Flynn, CH2-OH, UST #AK507 Assessment (Qualified individual per 18 AAC 78.995[87]) Supervisor: Peter Henderson, CH2-OH Melvin Bryant, CH2-OH SITE DESCRIPTION AND CLIMATE Average Annual Precipitation: 115 44 inches Average July Temp.: Average January Temp.: Estimated Depth to Groundwater: <5 Type of Backfill (unified class.): Inorganic pit run from local quarry. **Site Geology and Hydrogeology:** Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level. Surface Cover: UST 53J was covered with approximately 12 inches of gravel. Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine. Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve, which is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site. Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences. Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility. Location of Wells at or Near Site: None reported. Location of Underground Utilities at Site: An underground water line and electric line were located near Building 109; the water line was dented during excavation but did not result in a loss of water pressure.

> CH2-OH Revision No. 0

Site Access: The former FAA housing area is accessible by an unsecured gravel road east of Butterfly Avenue.

Climatological Conditions During Assessment: sunny, 50°F

FAA Tank Number: ADEC Tank Number:

UST 53J (SOW C-3 reference)

Site and Facility:

Non Regulated UST
Annette Island Former FAA Facility

TANK INFORMATIO	N								
Product Stored:	heating oil			Tank Ca <sub>l</sub>	pacity:	800 gallons			
Year Installed:	unknown		Length:	10 feet		_ Diame	eter: <u>45 i</u>	nches	
Wall Construction Construction Mate Protective Outer C Other:	erial:	XX XX	Single Wa Steel Asphalt	<u>-</u>	Resin	Double Wal Fiberglass	l Fiberglass	XX	None
Cathodic Protection		XX XX	No No			es		<u> </u>	Unknown Unknown
on the top surface of the	of Tank Penetrations: e tank used as a return lir	e; one 24-inch	bolted manwa	•		sed for vent, fill	, and feed lir	nes; one	1-inch bung
J	r Inventory Discrepanc		• .	•				N	lone reported.
Review of Invento	ry and Repair Records:	None repor	ted.						
former	d Disposal: The tank		•						
of	Storage Tank regulations								
	antity and Disposal: : Apreet, Seattle, WA 98108.	proximately 25	gallons of off-s	spec. diesel w	as remove	d and shipped	to Burlingtor	<u>Environ</u>	mental, Inc.,
Tank Inspection N					of the tank	k. Six corrosior	holes were	discove	red on the
	corrosion holes were disconnected with applicable.	overea on the	west end of the	e lank.					

FAA Tank Number: UST 53J (SOW C-3 reference) ADEC Tank Number:

Site and Facility:

Non Regulated UST

Annette Island Former FAA Facility

ΕX			

Excavation Notes: The tank was excavated with shovels and a backhoe on September 30, 1999. The final dimensions of the excavation area					
were					
approximately 5.5 feet wide, 13 feet long, and 5 feet below ground surface (bgs). The top of the tank was approximately 12 inches bgs. The					
excavation was lined with 10 mil poly and backfilled using inorganic pit run from a local quarry.					
Soil Conditions: Topsoil consisted of sands and gravel. Hard, blue clay was encountered at 5 feet bgs.					
Groundwater Conditions: Groundwater was encountered at an approximate depth of 4 feet bgs. A fuel sheen was present on the surface.					
Thermal Conditions: The soil was unfrozen to the limits of the excavation.					
ENVIRONMENTAL SCREENING					
Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial Scientific Corporation HMX 271 LEL/O2 Meter					
Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.					
Summary of Results:					
Soils Near Tank Penetrations: There was no apparent staining of soils above the tank.					
Soils Excavated as Required for Tank Removal: Approximately 5 cubic yards of soil were excavated during tank removal operations. 1.5 CY of					
topsoil contaminated with lead paint chips from the adjacent house were excavated and placed into a roll-off shipping container for off-site					
transportation and disposal (ANN33)					
Soils After Tank Removal: Approximately 6 additional cubic yards of fuel-contaminated soil was excavated following tank removal					
operations. Decision to excavate additional soils was based on field screening results.					
Soils at Limit of Excavation: Six soil samples were collected for field screening with the OVM, and four confirmation soil samples (ANN99SS009Q01					
through ANN99SS009Q04) were collected for offsite laboratory analysis from the excavation bottom and side walls as shown in Figure 3. One soil					
sample (ANN99TS008Q01) was collected for total lead analysis.Remaining soils are above MIC cleanup criteria for DRO.					
Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to Building 109 for heating oil storage.					
Ctackwiles. Detroloum conteminated cell stackwiles were not required. All conteminated cell was all careful into well off while in conteminated cell stackwiles.					
Stockpiles: Petroleum-contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for					

FAA Tank Number: UST 53J (SOW C-3 reference)

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

Annette Island, Alaska

offsite transportation, treatment, and disposal. Containerized soil was sample before shipping, analytical results are attached. . Fuel affected soil was

sent to TPS Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN40). A soil recycling certificate is attached. Lead affected soil was sent to Chem Waste Management of Northwest, 17629 Cedar Springs Lane, Arlington, OR 97812 (ANN33).

Groundwater: Groundwater was encountered during tank removal operations and had been impacted by leaking/spilled fuel products.

Groundwater will be sampled during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: **ADEC Tank Number:** 

UST 53J (SOW C-3 reference)

Non Regulated UST Site and Facility:

Annette Island Former FAA Facility

RELEASE RESPONSE
Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank.
Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community was notified on October 1, 1999, at 1530 hours. A copy of the release
notification is attached.
Initial Abatement Actions The soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned.
Approximately 10 cubic yards of potentially contaminated soil was removed and containerized for offsite transportation and disposal.
Release Investigation Report: MIC cleanup levels were not reached at this site. A release investigation is scheduled for the summer of 2000.
Corrective Action: Pending the results of a release investigation.
Hazard Ranking Summary and Score: <u>N/A</u>
Corrective Action Plan Summary and Status: Pending the results of a release investigation.
Tollowing the restinguist.

DA	TA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
1.	Were samples analyzed for requested parameters?	?		
2.	Is the ADEC Data Deliverables package complete?	?		
3.	Were samples extracted within holding time acceptance criteria?	?		
4.	Were samples analyzed within holding time acceptance criteria?	?		
5.	For soils, were sample results reported on a "dry weight" basis?	?		
6.	Were method blanks analytes all reported as ND?	?		
7.	For water, were trip blank analytes all reported as ND?			?
8.	Are the surrogate percent recoveries within acceptance criteria?		?	
9.	Are the matrix spike percent recoveries within acceptance criteria?	?		
10	. Are the matrix spike relative percent differences within acceptance criteria?	?		
11	. Are the field duplicate relative percent differences less than 50 percent?			?
Co	omments:			
8.	4-Bromofluorobenzene (GRO analysis) surrogate recovery for samples ANN99SS009Q02 and	ANN99SS009C	003 were outside o	of laboratory
	control limits because of matrix interference. Surrogate recovery during DRO analysis for samp	oles ANN99SS00	09Q01, ANN99SS	009Q02,
	ANN99SS009Q03, and ANN99SS009Q04 was outside laboratory control limits because of materials and annual section of the control limits because of materials and annual section of the control limits because of materials and annual section of the control limits because of the cont	rix interference	or not calculated b	ecause of
	required dilution. Surrogate recovery during RRO analysis for samples ANN99SS009Q02 and A	NN99SS009Q0	3 were not calcula	ated because of
	required dilution.			
	te:viewer:			

# **UST DECOMMISSIONING ASSESSMENT**

Rev. 5/24

FAA Tank Number: UST 54 (SOW C-3 reference) ADEC Tank Number: Non Regulated UST Annette Island Former FAA Facility Site and Facility: Annette Island, Alaska Tank State of Alaska Property Department of Interior, BIA Owner: P.O. Box 25520 Owner/Operator: Juneau, AK 99802 **UST Location:** School Building Foundation, Main Base Area **Legal Description:** Section 5, T078S, R092E, Copper River Meridian Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude **Decommissioning** Dave Hodgdon, CH2-OH Witnesses: Matt Flynn, CH2-OH, UST #AK507 Assessment (Qualified individual per 18 AAC 78.995[87]) Supervisor: Peter Henderson, CH2-OH Melvin Bryant, CH2-OH SITE DESCRIPTION AND CLIMATE Average Annual Precipitation: 115 inches 44 Average July Temp.: Average January Temp.: Estimated Depth to Groundwater: <5 Type of Backfill (unified class.): Inorganic pit run from a local quarry. Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed <u>wit</u>h marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level. **Surface Cover:** UST 54 was covered with approximately 18 inches of gravel. Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine. Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve, which is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site. Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences. Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility. Location of Wells at or Near Site: None reported. Location of Underground Utilities at Site: Underground utilities were not encountered during tank removal operations. Site Access: The former FAA housing area is accessible by an unsecured gravel road west of Butterfly Avenue.

Climatological Conditions During Assessment: sunny, 50°F

FAA Tank Number: ADEC Tank Number:

UST 54 (SOW C-3 reference)

Site and Facility:

Non Regulated UST
Annette Island Former FAA Facility

TANK INFORMATION		
Product Stored: <u>heating oil</u>	Tank Capacity:	2,000 gallons
rear Installed: unknown	Length: 12 feet	Diameter: <u>5 feet</u>
Nall Construction Type: XX  Construction Material: XX  Protective Outer Coating:  Other:	Single Wall Steel Asphalt Resin	Double Wall Fiberglass FiberglassXX None
Cathodic Protection: XX  Overfill Protection: XX  XX	No	Yes          Unknown           Yes          Unknown
Number and Size of Tank Penetrations:four 2-inch b	oungs on the top surface of the tank u	used for vent, fill, return, and supply lines
Date of Last Integrity Test: unknown  Historical Leaks or Inventory Discrepancy:	Type of Integrity Test: <u>N/</u>	A None reported.
Review of Inventory and Repair Records: None repo	rted.	
Fank Cleaning and Disposal:The tank was removed school building foundation and later cut into manageable pie of MIC Underground Storage Tank regulations. The cut tank pieces.	eces with an acetylene/oxygen torch a	and cleaned following (2) and (3) of Section (X)-160
Fank Bottoms Quantity and Disposal: : Approximately 10	O gallons of off-spec. diesel was remo	oved and shipped to Burlington Environmental, Inc.,
Tank Inspection Notes: Holes were apparent. Water w	vas seeping in faster than it was being	g pumped out.
Piping Notes: Not applicable.		

FAA Tank Number:

UST 54 (SOW C-3 reference)

ADEC Tank Number: Site and Facility: Non Regulated UST

Annette Island Former FAA Facility

Annette Island, Alaska

# **EXCAVATION**

Excavation Notes: The tank was excavated with shovels and a backhoe on October 4, 1999. The final dimensions of the excavation area were
approximately 10 feet wide, 18 feet long, and 6.5 feet below ground surface (bgs). The top of the tank was approximately 12 inches bgs. The bottom
<u>of</u>
the tank was approximately 6 feet bgs. Approximately 1630 gallons was pumped from the tank and excavated. Water was treated with Granular
Activated Carbon and discharged to MIC sewer.
Soil Conditions: Topsoil consisted of sands and gravel. Hard, blue clay was encountered at 5 feet bgs.
Groundwater Conditions: Groundwater was encountered at an approximate depth of 2 feet bgs. A fuel sheen was present on the surface.
Thermal Conditions: The soil was unfrozen to the limits of the excavation.
THE CONTROL OF THE CONTROL OF THE CONCRETE OF
ENVIRONMENTAL SCREENING
Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial
Scientific Corporation HMX 271 LEL/O2 Meter
Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.
Summary of Results:
Caile Near Tords Demotrations. The cails assessed at wards appeared to be improved by final and dusts
Soils Near Tank Penetrations: The soils present at grade appeared to be impacted by fuel products.
Saile Evenuated as Peguired for Tank Removal. Approximately 15 cubic yards of sail were executed during tank removal energing
Soils Excavated as Required for Tank Removal: Approximately 15 cubic yards of soil were excavated during tank removal operations.
Soils After Tank Removal: Approximately 18 additional cubic yards of fuel-contaminated soil was excavated following tank removal
operations. Decision to excavate additional soils was based on field screening results.
Soils at Limit of Excavation: Six soil samples were collected for field screening with the OVM, and four confirmation soil samples
(ANN99SS001B01
through ANN99SS001B04) were collected for offsite laboratory analysis from the excavation bottom and side walls as shown in Figure 3.Remaining
soils are above MIC cleanup criteria for DRO.
Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to the former School Building for heating oil storage
Stockpiles: Petroleum- contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for
offsite transportation and disposal. Containerized soil was sampled before shipment. Analytical results are attached. Fuel affected soil was sent to
TPS

FAA Tank Number: UST 54 (SOW C-3 reference)

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

Annette Island, Alaska

Technologies, Inc., 2800 - 104th Street Court, South, Lakewood, WA 98444 (ANN47). A soil recycling certificate is attached

**Groundwater:** Groundwater was encountered during tank removal operations and has been impacted by leaking/spilled fuel products.

Groundwater will be sampled during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: ADEC Tank Number:

UST 54 (SOW C-3 reference)

Site and Facility:

Non Regulated UST
Annette Island Former FAA Facility

RELEASE RESPONSE
Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank.
Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community was notified on October 5, 1999, at 1530 hours. A copy of the release notification is attached.
Initial Abatement Actions The soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned.
Approximately 10 cubic yards of contaminated soil was removed and containerized for offsite transportation and disposal.
Release Investigation Report: MIC cleanup levels were not reached. A release investigation is scheduled for the summer of 2000.
Corrective Action: Pending the results of a release investigation.
Hazard Ranking Summary and Score: N/A
Corrective Action Plan Summary and Status: Pending the results of a release investigation.
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DA	ATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
1.	Were samples analyzed for requested parameters?	?		
2.	Is the ADEC Data Deliverables package complete?	?		
3.	Were samples extracted within holding time acceptance criteria?	?		
4.	Were samples analyzed within holding time acceptance criteria?	See comment	See comment	
5.	For soils, were sample results reported on a "dry weight" basis?	?		
6.	Were method blanks analytes all reported as ND?	?		
7.	For water, were trip blank analytes all reported as ND?			?
8.	Are the surrogate percent recoveries within acceptance criteria?		?	
9.	Are the matrix spike percent recoveries within acceptance criteria?		?	
10	. Are the matrix spike relative percent differences within acceptance criteria?		?	
11	. Are the field duplicate relative percent differences less than 50 percent?			?
	omments:  e recovery of residual-range organics (RRO) in the blank spike was above the control limits for C  —	OC batch S99101	32. However, the re	ecovery of the
bla	ank spike duplicate was in control. Samples ANN99SS001B01 through ANN99SS001B04 were re-	prepped and re-a	analyzed outside of	hold time.
Bo				
<u>se</u> 8.	ts of data are included in this report. The RPD for the blank spike and blank spike duplicate in the 4-Bromofluorobenzene (GRO analysis) surrogate recovery for samples ANN99SS001B01 and			
<u>9.</u>				<u>.</u>
	control limits because of matrix interference. Surrogate recovery during DRO analysis for samp			
	Surrogate recovery during RRO analysis for samples ANN99SS001B02 and ANN99SS001B02	2 (re-extraction) v	vas too dilute to qua	antify.
	eviewer:			

CH2-OH

CH2-OH
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#### **UST DECOMMISSIONING ASSESSMENT**

Rev. 5/24

FAA Tank Number: UST 55A (SOW C-3 reference) ADEC Tank Number: Non Regulated UST Annette Island Former FAA Facility Site and Facility: Annette Island, Alaska Tank Property Department of Interior, BIA Federal Aviation Administration Owner: P.O. Box 25520 Owner/Operator: 222 West Seventh Avenue, #14 Juneau, AK 99802 Anchorage, Alaska 99513-7587 **UST Location:** Former FAA Service Building, Building 314, Main Base Area. When located for removal, tank was associated with Building 240. **Legal Description:** Section 5, T078S, R092E, Copper River Meridian Latitude and Longitude: 55?07' N Latitude, 131?34' Longitude **Decommissioning** Dave Hodgdon, CH2-OH Witnesses: Matt Flynn, CH2-OH, UST #AK507 Assessment (Qualified individual per 18 AAC 78.995[87]) Supervisor: Peter Henderson, CH2-OH Melvin Bryant, CH2-OH SITE DESCRIPTION AND CLIMATE Average Annual Precipitation: 115 44 inches Average July Temp.: **Average** January Temp.: Estimated Depth to Groundwater: <5 Type of Backfill (unified class.): Inorganic pit run from local quarry. **Site Geology and Hydrogeology:** Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of Metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed with marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level. Surface Cover: UST SSA was covered with approximately 12 inches of gravel. Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary, swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine. Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve, which is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site. Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences. Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility. Location of Wells at or Near Site: None reported. Location of Underground Utilities at Site: <u>Underground utilities were not encountered during tank removal operations.</u> Site Access: The former FAA Service Building (Building 314) is accessible by an unsecured gravel road west of Butterfly Avenue.

CH2-OH

Climatological Conditions During Assessment: sunny, 50°F

FAA Tank Number: <u>UST 55A (SOW C-3 reference)</u>

ADEC Tank Number:

Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

TANK INFORMATIO	<b>DN</b>						
Product Stored:	heating oil		Tar	k Capacity:	500 gallons		_
Year Installed:	<u>5/68</u>		Length: 6 feet		_ Diameter:	44 inches	
Wall Construction Construction Mate Protective Outer C Other:	erial:	XX XX	Single Wall Steel Asphalt	 Resin	Double Wall Fiberglass Fiber	glass <u> </u>	XX None
Cathodic Protection		XX	No		es		Unknown
Overfill Protection	1:	XX	No	Ye	es		Unknown
the	of Tank Penetrations: _ nk used for supply and reti					es; two 1.5-ir	nch bungs on
Date of Last Integ	rity Test: unknown		Type of Integrity	Test: N/A			
Historical Leaks o	r Inventory Discrepancy	/:					None reported
Review of Invento	ry and Repair Records:	None repor	ted.				
•	d Disposal: The tank value of tank value of the tank value of ta				-		
	Storage Tank Regulations.	The cut tank p	ieces were delivered to	the Metlakatla Q	uarry site for future r	ecycling.	
Tank Bottoms Qua	antity and Disposal: : Apreet, Seattle, WA 98108.(Al	proximately 20			•	· -	onmental, Inc.,
•	No corrosion ho					<u>ո though slig</u> l	htly rusted. A
Pining Notes:	Not applicable						

FAA Tank Number: UST 55A (SOW C-3 reference)

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

	V۸		

Excavation Notes: The tank was excavated with shovels and a backhoe on October 4, 1999. The final dimensions of the excavation area were approximately 10.5 feet wide, 11 feet long, and 5 feet below ground surface (bgs). The top of the tank was approximately 12 inches bgs. The bottom
approximately 10.5 feet wide, 11 feet long, and 5 feet below ground surface (bgs). The top of the tank was approximately 12 inches bgs. The bottom of
the tank was approximately 5 feet bgs. Approximately 100 gallons of water was pumped from the tank. Water was treated with
Granular Activated Carbon and discharged to the MIC sewer.
Soil Conditions: Topsoil consisted of sands and gravel. Hard, blue clay was encountered at 5 feet bgs.
Groundwater Conditions: Groundwater was encountered at an approximate depth of 5 foot bgs. A fuel sheen was present on the surface.  The groundwater level was observed to rise after tank removal to a level of one foot bgs.
Thermal Conditions: The soil was unfrozen to the limits of the excavation.
ENVIRONMENTAL SCREENING
Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/ 11.7 eV lamp; Industrial
Scientific Corporation HMX 271 LEL/O2 Meter
Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figure 4. A summary of analytical results is attached.
Summary of Results:
Saila Near Tank Benetrations. The sails present at grade appeared to be impacted by fuel products
Soils Near Tank Penetrations: The soils present at grade appeared to be impacted by fuel products.
Soils Excavated as Required for Tank Removal: Approximately 10 cubic yards of soil were excavated during tank removal operations.
<u> </u>
Soils After Tank Removal: Approximately 8 additional cubic yards of fuel-contaminated soil was excavated following tank removal operations.
Decision to excavate additional soils was based on field screening results.
Soils at Limit of Excavation: Six soil samples were collected for field screening with the OVM, and four confirmation soil samples (ANN99SS002B01
through ANN99SS002B04) were collected for offsite laboratory analysis from the excavation bottom and side walls as shown in Figure 3.
Soils Beneath Fuel Piping and Dispensers: Not applicable. The tank was installed adjacent to the former FAA Service Area Building (Building 314) for heating oil storage.
Stockpiles: Petroleum- contaminated soil stockpiles were not required. All contaminated soil was placed directly into roll-off shipping containers for
offsite transportation and disposal. Containerized soil was sampled before shipment, analytical results are attached. Fuel affected soil was sent to
onsite transportation and disposal. Containenzed soil was sampled before snipment, analytical results are attached. Fuel affected soil was sent to
Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN46). A soil recycling certificate is attached
The state of the s

FAA Tank Number: <u>UST 55A (SOW C-3 reference)</u>

ADEC Tank Number: Non Regulated UST

Site and Facility: Annette Island Former FAA Facility

Annette Island, Alaska

Groundwater: Groundwater was encountered during tank removal operations and has been impacted by leaking/spilled fuel products.

Groundwater will be sampled during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: US

UST 55A (SOW C-3 reference)

ADEC Tank Number: Nor Site and Facility: Ann

Non Regulated UST
Annette Island Former FAA Facility

RELEASE RESPONSE
Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank.
Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community was notified on October 5, 1999, at 1530 hours. A copy of the release notification is attached.
Initial Abatement ActionsThe soil surrounding the tank was removed, and the tank was removed, cleaned, and decommissioned.
Approximately 8 cubic yards of fuel contaminated soil was removed and containerized for offsite transportation and disposal.
Release Investigation Report: MIC cleanup levels were reached, however, a release investigation will still be performed at this site due to the
presence of the fuel sheen observed on the groundwater in the excavation. Because of the high water table at this site, the soil sample analytical results may not be representative of the true extent of fuel contamination at this site.
The state of the s
Corrective Action: N/A
Hazard Ranking Summary and Score: N/A
Corrective Action Plan Summary and Status: N/A

DATA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
4. Wassan and the section of the sec	9		
Were samples analyzed for requested parameters?	<u> </u>		
2. Is the ADEC Data Deliverables package complete?	?		
3. Were samples extracted within holding time acceptance criteria?	?		
4. Were samples analyzed within holding time acceptance criteria?	See comment	See comment	
5. For soils, were sample results reported on a "dry weight" basis?	9		
	<u> </u>		
6. Were method blanks analytes all reported as ND?	?		
7. For water, were trip blank analytes all reported as ND?			?
8. Are the surrogate percent recoveries within acceptance criteria?		2	
o. Are the surrogate percent recoveries within acceptance criteria:		<del></del>	
9. Are the matrix spike percent recoveries within acceptance criteria?		?	
10. Are the matrix spike relative percent differences within acceptance criteria?		?	
AA. And the California to relative more set differences been then 50 more set.			0
11. Are the field duplicate relative percent differences less than 50 percent?			
Comments:			
The recovery of residual-range organics (RRO) in the blank spike was above the control limits for C	QC batch S99101	32. However, the r	ecovery of the
blank spike duplicate was in control. Samples ANN99SS002B01 through ANN99SS002B04 were re	-prepped and re-a	analvzed outside of	hold time.
Both State of the		<u>,</u>	
sets of data are included in this report. The RPD for the blank spike and blank spike duplicate in the	re-extraction was	above the control	limits.
8. 4-Bromofluorobenzene (GRO analysis) surrogate recovery for sample ANN99SS002B02 was	outside of the co	ntrol limits.	
Surrogate recovery during DRO analysis for samples ANN99SS002B01 and ANN99SS002B02	2 was outside of t	he control limits be	cause of
<u>matrix</u>			
interference.			
Date:			
Reviewer:			

CH2-OH

Project No. 154116.E1.E8

Rev 5/24

**FAA Tank Number:** UST 76A (SOW C-3 reference) **ADEC Tank Number:** Site and Facility: Annette Island former FAA Facility Main Hangar Area, Former Standard Oil Storage and Service Building, Annette Island, Alaska Property Department of Interior, BIA Tank Chevron Owner/Operator: Owner: P.O. Box 25520 Juneau, AK 99802 **UST Location:** Main Hangar Area, south side of former Standard Oil Storage and Service Building, Annette Island, Alaska. Legal Description: Section 5, T078S, R092E, Copper River Meridian **Latitude and Longitude:** 55?07' N Latitude, 131?34' Longitude **Decommissioning** Dave Hodgdon, CH2-OH Witnesses: Matt Flynn, CH2-OH, UST #AK507 Assessment (Qualified individual per 18 AAC 78.995[87]) Supervisor: Peter Henderson, CH2-OH Melvin Bryant, CH2-OH SITE DESCRIPTION AND CLIMATE Average Annual Precipitation: 115 inches Average July Temp.: 44 **Average** January Temp.: Estimated Depth to Groundwater: <5 Type of Backfill (unified class.): Inorganic pit run from local quarry. Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level. Surface Cover: Less than 12 inches of gravel covered UST 76A. Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary. swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine. Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve, which is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site. Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Housing Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences. Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility. Location of Wells at or Near Site: None reported. Location of Underground Utilities at Site: Metlakatla Power & Light pulled fuses from main power feed at the main hangar. There were 4-inch underground electrical conduits on the hanger's east side. Site Access: Unsecured gravel road

> CH2-OH Revision No. 0

Climatological Conditions During Assessment: Mostly cloudy, spots of sunshine.

UST 76A (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar Area, Former Standard Oil
Storage and Service Building,

TANK INFORMATIO	N							
Product Stored:	Gasoline/Diesel			Tank Capacity	: appr	oximately 1,000	gallons	_
Year Installed:	unknown		Length:	144 inches		Diameter:	45 inches	
Wall Construction Construction Mate Protective Outer C Other:	erial:	X X	Single Wall Steel Asphalt		le Wall glass ı	Fiberg	ılass <u>X</u>	None
Cathodic Protection	* * * * *	X X	No No		Yes Yes			Unknown Unknown
Number and Size	of Tank Penetratio	ons: Two 1-1/2	inch penetrations	one 4-inch fill.				
Date of Last Integ	rity Test: Unki	nown	Type of	Integrity Test:				
Historical Leaks o	r Inventory Discre	pancy:						None reported.
Review of Invento	ry and Repair Rec	ords: No reco	ords available.					
Tank Cleaning and section (X)-160 of MI				ne FAA scrap metal s	ite at the M	letlakatla quarry	y following (2)	and (3) of
was shipped	nment, Inc., 734 Sout		**	25 gallons of used m				<u> </u>
Tank Inspection N	lotes: The tank h	ad one leak hole	e on the bottom ne	ar the south bulkhead.	•			
Piping Notes: Ta	ank piping was not e	ncountered dur	ing excavation.					

UST 76A (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar Area, Former Standard Oil

Storage and Service Building, Annette Island, Alaska

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Excavation Notes: The tank was excavated with a backhoe, front loader, compressor, pumps, chain saw, and shovels on September 25, 1999
The final dimensions of the excavation were approximately 9 feet wide, 16 feet long, and 4.5 feet deep. During excavation, a wooden crib (septic
<u>style</u>
pit) was encountered at the north wall. While excavating potential hot areas, the wooden crib broke and filled the excavation with water.
Approximately
365 gallons of water was pumped from the tank and the excavation, treated with granular activated carbon and discharged to the MIC sewer.
Soil Conditions: Tank sat on layer of blue clay.
Groundwater Conditions: Groundwater was encountered 4 feet below ground surface (bgs).
Thermal Conditions: The soil was unfrozen to the limits of the excavation.

#### **ENVIRONMENTAL SCREENING**

Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/10.6 eV lamp; Industrial Scientific Corporation HMX 271 LEL/02.

Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figures 4 and 5. A summary of analytical results is attached.

## Summary of Results:

Soils Excavated as Required for Tank Removal: Approximately 5 cubic yards were excavated for tank removal.
Soils After Tank Removal: An additional 5 cubic yards of soil was removed based on field screening results.
Soils at Limit of Excavation: Six field samples were analyzed from the limits of excavation with the OVM. Five confirmation soil samples
(ANN99SS004H01-ANN99SS004HO5) were collected from the bottom and side walls of the excavation, as shown in Figure 3, for laboratory analysis

offsite. Samples ANN99SS004H01-ANN99SS004HO4 were analyzed for gasoline-range organics (GRO)/benzene, toluene, ethylene, xylenes (BTEX),

diesel-range organics (DRO), and residual-range organics (RRO), sample ANN99SS004H05 was analyzed for total lead, and sample ANN99SS004HO3

was analyzed for polycyclic aromatic hydrocarbon (PAH), total metals, and VOC.

Soils Near Tank Penetrations: Soil was heavily impacted with possible petroleum contamination

Soils Beneath Fuel Piping and Dispensers: Not applicable.

UST 76A (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar Area, Former Standard Oil Storage and Service Building,

Annette Island, Alaska

Stockpiles: Approximately 21-24 cubic yards of potentially fuel-affected soil was removed and placed directly into roll-off shipping containers for offsite

transportation and disposal. Containerized soil was sampled before shipment. The analytical results are attached. . Fuel affected soil was sent to TPS

Technologies, Inc., 2800 - 104th Street Court, South, Lakewood, WA 98444 (ANN49). A soil recycling certificate is attached

**Groundwater:** Groundwater was encountered 4 feet bgs. A fuel sheen was observed. Groundwater samples will be collected during the scheduled

release investigation.

Other Environmental Screening: No other environmental screening was performed.

UST 76A (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar Area, Former Standard Oil Storage and Service Building,

Annette Island, Alaska

# SITE CLEANUP LEVEL ESTIMATE (from ADEC Underground Storage Tank Regulations, 18 AAC 78, May 4, 1998)

1.	Depth to Subsurface Water				
	<5 feet	(10)	10		
	5 - 15 feet	(8)			
	16 - 25 feet	(6)			
	26 - 50 feet	(4)			
	>50 feet	(1)			
2.	Mean Annual Precipitation				
	>40 inches	(10)	10		
	26 - 40 inches	(5)			
	16 - 25 inches	(3)			
	<15 inches	( 1)			
3.	Soil Type				
	Clean, coarse-grained soils	(10)			
	Coarse-grained soils with fines	(8)	8		
	Fine-grained soils (low organic carbon)	(3)			
	Fine-grained soils (high organic carbon)	(1)			
4.	Potential Receptors				
	Public water system within 1,000 feet, or priva	ite water system			
	within 500 feet	(15)			
	Public/private water system within 1/2 mile	(12)			
	Public/private water system within 1 mile	( 8)			
	No water system within 1 mile	( 4)			
	Non-potable groundwater	( 1)	1		
5.	Volume of Contaminated Soil				
	>500 cubic yards	(10)			
	101 - 500 cubic yards	( 8)			
	26 - 100 cubic yards	( 5)			
	10 - 25 cubic yards	( 2)	2		
	<10 cubic yards	( 0)			
		Matrix Score		31	
		<b>Product Stored</b>		Gasoline/Diesel	
	ADEC Site Cleanup Level	Estimate in mg/kg			100/200
	Field Action Level (75% of AD	EC Level) in mg/kg			75/150

		Cleanup Level Es	Cleanup Level Estimate in mg/kg		
	Diesel		Gasoline/Unknown		
Matrix Score	Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons Benzene		Total BTEX	
Category A >40	100	50	0.1	10	
Category B 27-40	200	100	0.5	15	
Category C 21-26	1,000	500	0.5	50	
Category D <21	2,000	1,000	0.5	100	
Benzene 0.02 (Total) 78	Ethylbenzene	6	Toluene 5	Xylenes	

UST 76A (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar Area, Former Standard Oil

Storage and Service Building, Annette Island, Alaska

Approved by: \_\_\_\_\_

UST 76A (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar Area, Former Standard Oil Storage and Service Building,

RELEASE RESPONSE
Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank and the corrosion hole
in the bottom of the tank.
Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on September 29, 1999, at 09:00 hours. At copy of the
release notification is attached.
Initial Abatement Actions: The tank was drained, removed, and decommissioned. Approximately 5 cubic yards of soil was containerized andremoved for
Release Investigation Report: MIC and ADEC cleanup levels were not reached. A release investigation is scheduled for the summer of 2000.
Corrective Action: Pending results of the release investigation report.
Teriding results of the release investigation report.
Hazard Ranking Summary and Score: Hazard ranking summary is attached. Hazard score = 12.6.
Corrective Action Plan Summary and Status: Pending completion of the release investigation.

UST 76A (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar Area, Former Standard Oil

Storage and Service Building,
Annette Island, Alaska

DA	TA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required			
1.	Were samples analyzed for requested parameters?	?					
2.	Is the ADEC Data Deliverables package complete?	?					
3.	Were samples extracted within holding time acceptance criteria?	?					
4.	Were samples analyzed within holding time acceptance criteria?	?					
5.	For soils, were sample results reported on a "dry weight" basis?	?					
6.	Were method blanks analytes all reported as ND?			?			
7.	For water, were trip blank analytes all reported as ND?			?			
8.	Are the surrogate percent recoveries within acceptance criteria?	?					
9.	Are the matrix spike percent recoveries within acceptance criteria?	?					
10.	Are the matrix spike relative percent differences within acceptance criteria?	?					
11.	Are the field duplicate relative percent differences less than 50 percent?			?			
	mments:						
8.	For GRO, 4-Bromofluorobenzene recovery for samples ANN99SS004H02 - ANN99SS004H04 v	was outside of r	method recovery lim	its. For DRO,			
samples ANN99SS004H01 and ANN99SS004H04 were not calculate because of required dilution. For RRO, sample ANN99SS004H04 surrogate							
recovery was not calculated because of required dilution.							
_11	11. Sample ANN99SS004H03 and it's lead duplicate ANN99SS004H05, RPD = 3.2%						
_							

UST 76A (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar Area, Former Standard Oil

Storage and Service Building,

Annette Island, Alaska

Date:	
Reviewer:	

# HAZARD RANKING MODEL SUMMARY AND SCORE\*

#### **SUMMARY MATRIX**

			<u>50</u>	WWARY WAIRIX			
Ranking Score = MCF	x Substance	e Factor x (I	Humaı	n Target + Enviro	onmental Targ	et) =	12.6
		Multiple Contan	ninant F	actor (MCF)	=	1	
	Substance Fac	tor = Toxicity x	Quantity	y x Release	=	2	
Human Site Target = Access +	Air Target + Population	Adjacent Groundwat Use		Adjacent Surface- Water Use	=	3.25	
Environmental Target	Surfa = Wa Environ	ter +		Environmental Recreation Areas	=	2	
ı	Environmental T	arget = Obser	rved Effe	ects	=	N/A	
		Environn	nental T	arget Score	=	2	
Air Air Target = Exposu Index 1 Mile	ıre x	Population Within 500 Feet	x	Population Within	=	0.5	Population
Adjacent Groundw Groundwater = Use Use	rater G x	roundwater Exposure Index	x	Population Within 1 Mile	=	.35	

<sup>\*</sup> Shannon & Wilson, Inc., and Science Applications International Corporation, Draft Alaska hazard ranking model for the contaminated site database, prepared for ADEC, January 21, 1991.

CH2-OH UST Decommissioning FAA Facility, Annette Island, Alaska

Approved by: \_

UST 76A (SOW C-3 reference)

Annette Island former FAA Facility Main Hangar Area, Former Standard Oil

Storage and Service Building,

Annette Island, Alaska

Adjacent Surface-Water Surface-Population Surface-Water Х Exposure Х Within Water Use Index Use

1 Mile

.4

CH2-OH

**UST** Decommissioning FAA Facility, Annette Island, Alaska

Approved by:

UST 76A (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar Area, Former Standard Oil
Storage and Service Building,

Annette Island, Alaska

MULTIPLE CONTAMINANT FACTOR (MCF) Score = 1.2									
<u>Value</u>									
1.2 1	•								
			TOXICITY		Score = 2				
<u>Value</u>	<u>Toxicity</u>								
4	Chlorinated solver	nts, other halogenated	hydrocarbons, synthet	tic chlorinated					
3	•	, aviation gasoline, napht	tha, non-chlorinated pe	esticides					
2.1	Unknown substar	nces							
2		ls, kerosene, phenols,							
1	Waste lubricating	oils, heavy fuel oils (No	o. 6 etc.) inorganic acid	ds/bases, tar					
		Q	<u>UANTITY</u>		Score = 1				
		Spilled	Cubic Yards	Surface Area					
<u>Value</u>	Drums	Gallons	or Tons	(square feet)					
1	<10	<500	<100	<100					
2	10-100	500-5,500	100-500	100-10,000					
3	100-1,000	5,500-40,000	500-2,000	10,000-1 acre					
4	>1,000	>40,000	>2,000	>1 acre					
		POTENT	IAL FOR RELEASE		Score = 1				
<u>Value</u>	Release	<u>1012111</u>	IAL FOR RELEASE		000.0 = 1				
1	Documented relea	ase regardless of quant	iity						
0.5	Containment/management practices that may pose significant threat								
0.2	0.2 Unknown potential for release								
0.1	0.1 Documented absence of release								
		SIT	TE ACCESS		Score = 2				
<u>Value</u>	Access	<u>511</u>	TE AGGEGG		00010 = 2				
3	School within 500	feet and site access is	uncontrolled						
2	Access uncontrol	led							
1	Site is partially se	cure							
0	Hazardous substances are underground, or site is secure								

CH2-OH

UST Decommissioning FAA Facility, Annette Island, Alaska

Approved by: \_\_\_\_\_

UST 76A (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar Area, Former Standard Oil Storage and Service Building,

Annette Island, Alaska

Score = 0.1**AIR EXPOSURE** Value 1 Documented release of particulates or gases 0.5 Releases may have occurred, but have not been documented 0.2 Unknown whether wastes are at ground surface, or sites with stockpiles of contaminated soil not known to be completely contained 0.1 No air releases **POPULATION WITHIN 1 MILE** Score = 5 Value Within One Mile 10 Urban residential (>35,000) 8 Suburban; Cities of 2,000 - 35,000; or industrial/commercial 5 Villages of <2,000; or low density housing or low density industrial/commercial 3 Rural, with some occupied buildings 0 No population **POPULATION WITHIN 500 FEET** Score = 1 <u>Value</u> 1 Occupied buildings 0.5 No occupied buildings Score = 0.1 **GROUNDWATER USE (WITHIN 1 MILE)** Value Municipal or other public wells serving >25 individuals 1 8.0 Community or private wells 0.4 Drinking water supply >1 mile from site, OR no known wells, but possibility exists 0.1 Groundwater not available for drinking water or not used **GROUNDWATER EXPOSURE INDEX** Score = 0.7**Value** 2 Documented contamination of water supply wells >MCL 1.4 Documented contamination of water supply wells <MCL 0.7 Groundwater contamination exists, but no contamination of water supply wells 0.4 Unknown whether groundwater contamination exists 0 Groundwater documented free of contamination, OR low potential for contamination

CH2-OH

Approved by:

UST 76A (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar Area, Former Stand

Main Hangar Area, Former Standard Oil Storage and Service Building,

Annette Island, Alaska

	SURFACE-WATER USE (WITHIN 1 MILE OF SITE)	Score = 0.2
<u>Value</u>		
1	Surface water used as drinking water source	
0.5	Surface-water use unknown, but likely	
0.2	Surface-water use unknown, but unlikely, OR surface water not used	
	SURFACE-WATER EXPOSURE INDEX	Score = 0.4
<u>Value</u>		
2	Documented contamination of surface drinking water supply >MCL	
1.4	Documented contamination of surface drinking water supply <mcl< td=""><td></td></mcl<>	
0.7	Surface-water contamination exists, but no contamination of surface drinking water supply	
0.4	Unknown whether surface-water contamination exists	
0	Surface water documented free of contamination, OR low potential for contamination	
	SURFACE-WATER ENVIRONMENTS (WITHIN 1/4 MILE OF SITE)	Score = 2
<u>Value</u>		
5	Fresh/marine waters or wetlands present, and evidence of death/stress to fish or wildlife	
3	Fresh/marine waters or wetlands present, and evidence of death/stress to plant life	
2	Fresh/marine waters or wetlands present, but no evidence of death/stress to fish, wildlife, or plant life	
0	No fresh or marine waters or wetlands present	
	ENVIRONMENTAL/RECREATION AREAS*	Score = 0
<u>Value</u>		
5	In an Environmental/Recreation area with evidence of death or stress to fish or wildlife	
3	In an Environmental/Recreation area with evidence of death or stress to plant life	
2	In an Environmental/Recreation area with no evidence of death or stress to fish, wildlife, or plant life	
0	Not in an Environmental/Recreation area	
	OBSERVED ENVIRONMENTAL IMPACTS	Score = 0
<u>Value</u>		
5	Evidence of death or stress to fish or wildlife	
3	Evidence of death or stress to plant life	
0	No evidence of death or stress to wildlife or plant life	
	Note: This factor is scored only if Surface-Water Environments and Environmental/Recreational Areas both score zero	

<sup>\*</sup>Environmental/Recreation areas include National/State Parks, Monuments, Refuges, Forests, and Recreation Areas.

CH2-OH

UST Decommissioning FAA Facility, Annette Island, Alaska

Approved by: \_\_

UST 76A (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar Area, Former Standard Oil

Storage and Service Building,

Annette Island, Alaska

# Treated Water Analytical Results

#### **UST DECOMMISSIONING ASSESSMENT**

Rev 5/24

**FAA Tank Number:** UST 76B (SOW C-3 reference) **ADEC Tank Number:** Site and Facility: Annette Island former FAA Facility Main Hangar Area, Former Standard Oil Storage and Service Building, Annette Island, Alaska Property Tank Federal Aviation Administration Department of Interior, BIA Owner: P.O. Box 25520 Owner: 222 West Seventh Avenue, #14 Juneau, AK 99802 Anchorage, Alaska 99513-7587 Operator: Chevron **UST Location:** Main Hangar Area, west side of former Standard Oil Storage and Service Building, Annette Island, Alaska. Legal Description: Section 5, T078S, R092E, Copper River Meridian **Latitude and Longitude:** 55?07' N Latitude, 131?34' Longitude **Decommissioning** Dave Hodgdon, CH2-OH Witnesses: Matt Flynn, CH2-OH, UST #AK507 Assessment (Qualified individual per 18 AAC 78.995[87]) Supervisor: Peter Henderson, CH2-OH Melvin Bryant, CH2-OH SITE DESCRIPTION AND CLIMATE Average Annual Precipitation: 115 inches Average July Temp.: 44 **Average** January Temp.: Estimated Depth to Groundwater: <5 Type of Backfill (unified class.): Inorganic pit run from local quarry. Site Geology and Hydrogeology: Annette Island is part of the northern region of an extensive coastal mountain range called the Cordilleran Range. Annette Island lies in the Wrangell-Revillagigedo belt of metamorphic rocks. The former FAA Station is situated in an area referred to as the Metlakatla Peninsula that is relatively flat. Bedrock underlying the Metlakatla Peninsula is chiefly composed of schist, gneiss, and hornfels. Surface lithology found on the island includes muck, glacial till, and raised beach deposits. Surface soil consists of poorly drained, sandy gravel intermixed marine clay and decomposed organic matter. The depth of the sandy gravel typically ranges from 4 to 6 feet. The Metlakatla Peninsula is mostly a swampy, heavily vegetated lowland generally less than 200 feet above sea level. Surface Cover: UST 76B was covered with gravel. Surrounding Vegetation: Vegetation on the peninsula is primarily composed of sedges, sphagnum moss, crowberry, Labrador tea, bog rosemary. swamp laurel, isolated stands of mountain hemlock, Alaska yellow cedar, and yellow pine. Surrounding Land Use: The Annette Island Former FAA Facility is on the Annette Island Indian Reserve, which is the home of the Metlakatla Indian Community (MIC). MIC occupies several buildings in and around the former FAA site. Surrounding Populations: Approximately 1,464 people live in Metlakatla, approximately 5 miles from the former FAA site. In the former FAA Housing Area, Building 108 houses the MIC forestry and fisheries departments, and buildings 107, 106, and 109 are used as residences. Water Quality: Groundwater in and around Metlakatla is considered nonpotable. Drinking water is obtained from Yellow Lake, approximately 4 miles north of the former FAA facility. Location of Wells at or Near Site: None reported. Location of Underground Utilities at Site: Metlakatla Power and Light pulled fuses from main power feed at main hangar. There were 4-inch underground electrical conduits on the hangar's east side.

Site	Access:	Unsecured	gravel	road
JILE	AUGUOS.	Uliseculeu	ulavei	IUau

Climatological Conditions During Assessment: Cool and rainy

FAA Tank Number: UST 76B (St ADEC Tank Number: Site and Facility: Annette Islan

UST 76B (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar Area, Former Standard Oil Storage and Service Building, Annette Island, Alaska

TANK INFORMATION						
Product Stored: Gasoline		Tank Capacity:	approximately 1,200	) gallons		
Year Installed: unknown	Length:	144 inches	_ Diameter:	51 inches		
Wall Construction Type:  Construction Material:  Protective Outer Coating:  Other:	Single Wall Steel Asphalt	Double W. Fiberglas Resin	S	ylass <u>X</u> None		
Cathodic Protection: X Overfill Protection: X	No No		es es	Unknown Unknown		
Number and Size of Tank Penetrations: One 2 inc	ch bung, two 1-1/2-	inch bungs, fill and vent.	Two 1-inch bungs, fe	ed and return.		
Date of Last Integrity Test: Unknown	Type of I	ntegrity Test:				
Historical Leaks or Inventory Discrepancy: None reported.						
Review of Inventory and Repair Records: <u>No rec</u>	ords available.					
Tank Cleaning and Disposal: Tank was cut, clear section (X)-160 of MIC Underground Storage Tank Regu		ne FAA scrap metal site at	the Metlakatla quarr	y following (2) and (3) of		
Tank Bottoms Quantity and Disposal: Approximatel Environmental, Inc., 734 South Lucil of the motor oil are attached						
Tank Inspection Notes: The tank had several leak size.	holes on the bottor	m near the south and north	n bulkheads, some gr	eater than a half-dollar in		

Piping Notes: Tank piping was not encountered during excavation.

UST 76B (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar Area, Former Standard Oil

Storage and Service Building,

Annette Island, Alaska

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Excavation Notes: The tank was excavated with a backhoe, front loader, compressor, pumps, chain saw, and shovels on September 23, 1999.

The final dimensions of the excavation were approximately 9.5 feet wide, 16 feet long, and 4 feet deep. Approximately 50 gallons of water was removed from the excavation and treated with granular activated carbon and discharged to the MIC sewer.

Soil Conditions: Tank sat on a layer of blue clay.

Groundwater Conditions: Groundwater was encountered 4 feet below ground surface (bgs). A sheen was observed on the groundwater surface.

Thermal Conditions: The soil was unfrozen to the limits of the excavation.

#### **ENVIRONMENTAL SCREENING**

Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/10.6 eV lamp; Industrial Scientific Corporation HMX 271 LEL/02.

Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figures 4 and 5. A summary of analytical results is attached.

### **Summary of Results:**

Soils Near Tank Penetrations: Tank piping and risers had been previously removed by others.

Soils Excavated as Required for Tank Removal: Approximately 10 cubic yards were excavated for tank removal.

Soils After Tank Removal: An additional 3 cubic yards of soil was removed based on field screening results.

Soils at Limit of Excavation: Six field samples were taken from the limits of excavation with the OVM. Six confirmation soil samples (ANN99SS005H01-ANN99SS005H04, ANN99SS005H06, ANN99SS005H07) were collected from the bottom and side walls of the excavation, as shown in Figure 3, for laboratory analysis offsite. Samples ANN99SS005H01-ANN99SS005H04 were analyzed for gasoline-range organics (GRO)/benzene, toluene, ethylene, xylenes (BTEX), diesel- range organics (DRO), and residual-range organics (RR0). Sample ANN99SS005H06 was

analyzed for total lead, and sample ANN99SS005HO7 was analyzed for polycyclic aromatic hydrocarbon (PAH). Sample ANN99SS0SH03 was analyzed for VOCs and total metals.Remaining soils are above ADEC and MIC cleanup criteria for DRO.

Soils Beneath Fuel Piping and Dispensers: Not applicable.

Stockpiles: Approximately 3 cubic yards of fuel-affected soil was removed and placed directly into roll-off shipping containers for offsite transportation and disposal. Containerized soil was sampled before shipment, analysis is attached. Fuel affected soil was sent to TPS Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN35). A soil recycling certificate is attached

**FAA Tank Number: ADEC Tank Number:** 

Site and Facility:

UST 76B (SOW C-3 reference)

Annette Island former FAA Facility Main Hangar Area, Former Standard Oil

Storage and Service Building,

Annette Island, Alaska

Groundwater: Groundwater was encountered 4 feet bgs. A fuel sheen was observed on the groundwater. Samples will be collected during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

FAA Tank Number: ADEC Tank Number:

Site and Facility:

UST 76B (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar Area, Former Standard Oil

Storage and Service Building,
Annette Island, Alaska

## SITE CLEANUP LEVEL ESTIMATE (from ADEC Underground Storage Tank Regulations, 18 AAC 78, May 4, 1998)

1.	Depth to Subsurface Water					
	<5 feet	(10)	10			
	5 - 15 feet	( 8)				
	16 - 25 feet	( 6)				
	26 - 50 feet	(4)				
	>50 feet	( 1)	·			
2.	Mean Annual Precipitation					
	>40 inches	(10)	10			
	26 - 40 inches	(5)				
	16 - 25 inches	(3)				
	<15 inches	(1)				
3.	Soil Type					
	Clean, coarse-grained soils	(10)				
	Coarse-grained soils with fines	( 8)	8			
	Fine-grained soils (low organic carbon)	(3)				
	Fine-grained soils (high organic carbon)	(1)				
4.	Potential Receptors					
	Public water system within 1,000 feet, or private water system					
	within 500 feet	(15)				
	Public/private water system within 1/2 mile	(12)				
	Public/private water system within 1 mile	(8)				
	No water system within 1 mile	(4)				
	Non-potable groundwater	(1)	1			
5.	Volume of Contaminated Soil					
	>500 cubic yards	(10)				
	101 - 500 cubic yards	( 8)				
	26 - 100 cubic yards	( 5)				
	10 - 25 cubic yards	( 2)	2			
	<10 cubic yards	( 0)				
	Matrix Score 31					
				Gasoline		
ADEC Site Cleanup Level Estimate in mg/kg				100		
	Field Action Level (75% of ADI					

		Cleanup Level Es		
	Diesel	Gasoline/Unknown		
Matrix Score	Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Benzene	Total BTEX
Category A >40	100	50	0.1	10
Category B 27-40	200 1,000	100 500	0.5	15 50
Category C 21-26			0.5	
Category D <21	2,000	1,000	0.5	100
Benzene 0.02 (Total) 78	Ethylbenzene	6	Toluene 5	Xylenes

UST 76B (SOW C-3 reference)

Annette Island former FAA Facility Main Hangar Area, Former Standard Oil

Storage and Service Building,

Approved by:	
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UST 76B (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar Area, Former Standard Oil

Storage and Service Building,

RELEASE RESPONSE
Release: Contamination was created by historical leaks/spills associated with the operation of the underground storage tank and the corrosion hole in the bottom of the tank.
Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on September 24, 1999, at 14:20 hours. At copy of the release notification is attached.
Initial Abatement Actions: Water was drained from the tank and thetank was removed, and decommissioned. Approximately 3 cubic yards of soil was containerized and removed for offsite transportation and disposal.
Release Investigation Report: ADEC and MIC cleanup levels were not reached. A release investigation is scheduled for the summer of 2000.
Corrective Action: Pending results of the release investigation report.
Hazard Ranking Summary and Score: Hazard ranking summary is attached. Hazard score = 12.6.
Corrective Action Plan Summary and Status: Pending completion of the release investigation.
Our Court Addition From Cummary and Catalog. I chaing completion of the release investigation.

UST 76B (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar Area, Former Standard Oil

Storage and Service Building,

Annette Island, Alaska

DA	TA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required	
1.	Were samples analyzed for requested parameters?	?			
2.	Is the ADEC Data Deliverables package complete?	?			
3.	Were samples extracted within holding time acceptance criteria?	?			
4.	Were samples analyzed within holding time acceptance criteria?	?			
5.	For soils, were sample results reported on a "dry weight" basis?	?			
6.	Were method blanks analytes all reported as ND?			??	
7.	For water, were trip blank analytes all reported as ND?			?	
8.	Are the surrogate percent recoveries within acceptance criteria?	?			
9.	Are the matrix spike percent recoveries within acceptance criteria?	?			
10.	Are the matrix spike relative percent differences within acceptance criteria?	?			
11.	Are the field duplicate relative percent differences less than 50 percent?			?	
Comments:  8. For EPA 8260, sample ANN99SS005H03 was outside of laboratory control limits. For GRO samples, ANN99SS005H02 and ANN99SS005H04  were outside of method recovery limits. For DRO and RRO, samples ANN99SS005H01-ANN99SS005H04 were not calculate because of required dilution.					
9. For EPA 8260; the recoveries and/or RPDs of multiple target compounds and surrogates in the matrix spike and matrix spike duplicate for sample					
ANN99SS005H03 were outside of control limits. The recoveries and/or RPDs of one or more target compounds in the laboratory control sample and laboratory control sample duplicate were outside of control limits. There were not hits in the samples.					
For Metals by EPA 6010/7000 the recoveries and/or RPDs of multiple target compounds in the matrix spike and/or matrix spike duplicate for					
samples ANN99SS005H3 and ANN99SS006 were outside of control limits. However, the laboratory control sample was within control limits.					
Date:					
Re	viewer:			CH2-OH	

UST Decommissioning

ANC/76B.DOC/ 993540003

Approved by: \_\_\_\_\_

**FAA Tank Number:** 

**ADEC Tank Number:** Site and Facility: UST 76B (SOW C-3 reference)

Annette Island former FAA Facility Main Hangar Area, Former Standard Oil

Storage and Service Building,

Annette Island, Alaska

### HAZARD RANKING MODEL SUMMARY AND SCORE\*

### **SUMMARY MATRIX**

Ranking Score = MCF x Substance Factor x (Human Target + Environmental Target) =						
	Multiple Contaminant	Factor (MCF)	=	1		
Substance	Factor = Toxicity x Quant	tity x Release	=	2		
Human Site Air Target = Access + Target Population	Adjacent + Groundwater + on Use	Adjacent Surface- Water Use	=	3.25		
Environmental Target = E	Surface- Water + nvironments	Environmental Recreation Areas	=	2		
OR						
Environmental Target = Observed Effects				N/A		
	Target Score	=	2			
Air Air Target = Exposure x Index 1 Mile	Population Within x 500 Feet	Population Within	=	0.5	Population	
Adjacent Groundwater  Groundwater = Use x  Use	Groundwater Exposure x Index	Population Within 1 Mile	=	.35		
Adjacent Surface- Surface- = Water x Water Use Use	Surface-Water Exposure x Index	Population Within 1 Mile	=	.4		

Shannon & Wilson, Inc., and Science Applications International Corporation, Draft Alaska hazard ranking model for the contaminated site database,

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FAA Tank Number: ADEC Tank Number:

UST 76B (SOW C-3 reference)

Site and Facility: Annette Island former FAA Facility

Main Hangar Area, Former Standard Oil Storage and Service Building,

Annette Island, Alaska

<u>Value</u>	MULTIPLE CONTAMINANT FACTOR (MCF)		Score = 1.2		
1.2	Multiple contamina				
1	Single contaminar	nt			
			TOXICITY		Score = 2
<u>Value</u>	Toxicity		<u>TOXICITI</u>		Score = 2
	<u></u>				
4		nts, other halogenated	hydrocarbons, synthe	tic chlorinated	
2	organic pesticides		the non ablarinated no	acticidas	
3 2.1	Unknown substar	aviation gasoline, naph	ına, non-chionnated pe	esticides	
2		els, kerosene, phenols,	or non-chlorinated sol	vents, crude oil	
1		oils, heavy fuel oils (No		•	
		,, (	ar a crai, margania ac		
QUANTITY Score = 1					
		Spilled	Cubic Yards	Surface Area	
<u>Value</u>	Drums	Gallons	or Tons	(square feet)	
1	<10	<500	<100	<100	
2	10-100	500-5,500	100-500	100-10,000	
3	100-1,000	5,500-40,000	500-2,000	10,000-1 acre	
4	>1,000	>40,000	>2,000	>1 acre	
		POTENT	IAL FOR RELEASE		Score = 1
<u>Value</u>	Release				
1	Documented relea	ase regardless of quant	iity		
0.5		agement practices that	•	hreat	
0.2	Unknown potentia	al for release			
0.1	Documented abse	ence of release			
		en	TE ACCESS		Score = 2
Value	Access	<u>311</u>	TE ACCESS		Score = 2
3	School within 500	feet and site access is	uncontrolled		
2	Access uncontrol	led			
1	Site is partially se	cure			
0	Hazardous substa	ances are underground	I, or site is secure		

prepared for ADEC, January 21, 1991.

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UST Decommissioning FAA Facility, Annette Island, Alaska Project No. 154116.E1.E8

UST 76B (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar Area, Former Standard Oil

Storage and Service Building,

Annette Island, Alaska

	AIR EXPOSURE	Score = 0.1
<u>Value</u>		
1	Documented release of particulates or gases	
0.5	Releases may have occurred, but have not been documented	
0.2	Unknown whether wastes are at ground surface, or sites with stockpiles of	
0.1	contaminated soil not known to be completely contained	
0.1	No air releases	
	POPULATION WITHIN 1 MILE	Score = 5
<u>Value</u>	Within One Mile	
40	Listen and identical (OF 000)	
10	Urban residential (>35,000)	
8	Suburban; Cities of 2,000 - 35,000; or industrial/commercial	
5	Villages of <2,000; or low density housing or low density industrial/commercial	
3 0	Rural, with some occupied buildings	
U	No population	
	POPULATION WITHIN 500 FEET	Score = 1
<u>Value</u>	·	
1	Occupied buildings	
0.5	No occupied buildings	
	CPOLINDWATER LISE (WITHIN 1 MILE)	Score = 0.1
<u>Value</u>	GROUNDWATER USE (WITHIN 1 MILE)	Score = 0.1
value		
1	Municipal or other public wells serving >25 individuals	
0.8	Community or private wells	
0.4	Drinking water supply >1 mile from site, OR no known wells, but possibility exists	
0.1	Groundwater not available for drinking water or not used	
	GROUNDWATER EXPOSURE INDEX	Score = 0.7
<u>Value</u>		
2	Documented contamination of water supply wells >MCL	
1.4	Documented contamination of water supply wells <mcl< td=""><td></td></mcl<>	
0.7	Groundwater contamination exists, but no contamination of water supply wells	
0.4	Unknown whether groundwater contamination exists	
0.4	Groundwater documented free of contamination, OR low potential for contamination	
Ŭ	2.52	

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FAA Tank Number:
ADEC Tank Number:

ADEC Tank Number: Site and Facility:

UST 76B (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar Area, Former Standard Oil

Storage and Service Building,

Annette Island, Alaska

	SURFACE-WATER USE (WITHIN 1 MILE OF SITE)	Score = 0.2
<u>Value</u>		
1	Surface water used as drinking water source	
0.5	Surface-water use unknown, but likely	
0.2	Surface-water use unknown, but unlikely, OR surface water not used	
	SURFACE-WATER EXPOSURE INDEX	Score = 0.4
<u>Value</u>		
2	Documented contamination of surface drinking water supply >MCL	
1.4	Documented contamination of surface drinking water supply <mcl< td=""><td></td></mcl<>	
0.7	Surface-water contamination exists, but no contamination of surface drinking water supply	
0.4	Unknown whether surface-water contamination exists	
0	Surface water documented free of contamination, OR low potential for contamination	
	SURFACE-WATER ENVIRONMENTS (WITHIN 1/4 MILE OF SITE)	Score = 2
<u>Value</u>		
5	Fresh/marine waters or wetlands present, and evidence of death/stress to fish or wildlife	
3	Fresh/marine waters or wetlands present, and evidence of death/stress to plant life	
2	Fresh/marine waters or wetlands present, but no evidence of death/stress to fish, wildlife, or plant life	
0	No fresh or marine waters or wetlands present	
	ENVIRONMENTAL/RECREATION AREAS*	Score = 0
<u>Value</u>		
5	In an Environmental/Recreation area with evidence of death or stress to fish or wildlife	
3	In an Environmental/Recreation area with evidence of death or stress to plant life	
2	In an Environmental/Recreation area with no evidence of death or stress to fish, wildlife, or plant life	
0	Not in an Environmental/Recreation area	
	OBSERVED ENVIRONMENTAL IMPACTS	Score = 0
<u>Value</u>		<del>-</del>
5	Evidence of death or stress to fish or wildlife	
3	Evidence of death or stress to fish or wilding	
0	No evidence of death or stress to wildlife or plant life	
	Note: This factor is s cored only if Surface-Water Environments and Environmental/Recreational Areas both score zero	

CH2-OH

UST Decommissioning FAA Facility, Annette Island, Alaska Project No. 154116.E1.E8

 $<sup>{\</sup>rm ^*Environmental/Recreation\ areas\ include\ National/State\ Parks,\ Monuments,\ Refuges,\ Forests,\ and\ Recreation\ Areas.}$ 

# **UST DECOMMISSIONING ASSESSMENT**

Rev. 5/24

	FAA Tank Number: ADEC Tank Number: Site and Facility:		:		
r, BIA	Tank Owner/Operator:	222 Wes	t Seventh Avenue,	#14	
scription: Section 5, T078	S, R092E, Copper River Meridian	Island, Ala	aska.		
don, CH2-OH	(Qı Pet	ualified ind er Henders	ividual per 18 AAC son, CH2-OH		
35?F  ater:<5 feet  .): Inorganic pit run from the  gy: Annette Island is part of Wrangell-Revillagigedo belt of vely flat. Bedrock underlying to	of the northern region of an extens f metamorphic rocks. The former lithe Metlakatla Peninsula is chiefly	AA Statio	on is situated in an a	area referred to as the and hornfels. Surface	
y a swampy, heavily vegetates covered with approximately	ed lowland generally less than 200 12 inches of gravel.	) feet abov	ve sea level.		
mountain hemlock, Alaska ye Annette Island Former FAA F	ellow cedar, and yellow pine.  Facility is on the Annette Island Ind				
proximately 1,464 people live C forestry and fisheries department of the control	in Metlakatla, approximately 5 mil ettments, and buildings 107, 106, a considered nonpotable. Drinking w	and 109 ai	re used as residenc	ces.	
	scription: Section 5, T078 and Longitude: 55:07' N I don, CH2-OH  TE: 115 inches 35 'F ater: <5 feet  Inorganic pit run from the gy: Annette Island is part of welly flat. Bedrock underlying to des muck, glacial till, and rais lanic matter. The depth of the lay a swampy, heavily vegetates covered with approximately letation on the peninsula is provided in another to the lay a symmetric section on the peninsula is provided in another to the lay a symmetric section on the peninsula is provided in another to the lay a symmetric section on the peninsula is provided in another to the lay a symmetric section on the peninsula is provided in another to the lay a symmetric section on the peninsula is provided in another to the lay a symmetric section on the peninsula is provided in another to the lay a symmetric section on the peninsula is provided in another to the lay a symmetric section on the peninsula is provided in another to the lay a symmetric section of the lay a symmetric secti	ADEC Tank N Site and I  Tank Owner/Operator:  r Area, former Air Traffic Control Tower, Building 608, Annette scription: Section 5, T078S, R092E, Copper River Meridian and Longitude: 55:07' N Latitude, 131:34' Longitude don, CH2-OH Witnesses: Ma (Qu. Pet Me  TE  :115 inches	ADEC Tank Number: Site and Facility:  Tank Owner/Operator: 222 Wes Anchorar  r Area, former Air Traffic Control Tower, Building 608, Annette Island, Ala scription: Section 5, T078S, R092E, Copper River Meridian and Longitude: 55:007 N Latitude, 131:34* Longitude don, CH2-OH Witnesses: Matt Flynn, Ci (Qualified ind Peter Hender Melvin Bryant  TE :115 inches	ADEC Tank Number:  Site and Facility:  Annette Island to Main Hangar, Bid Alaska  Tank  Owner/Operator:  222 West Seventh Avenue, Anchorage, Alaska 99513-7  r Area, former Air Traffic Control Tower, Building 608, Annette Island, Alaska.  scription:  Section 5, T078S, R092E, Copper River Meridian and Longitude: 55:07' N Latitude, 131:34' Longitude  don, CH2-OH  Witnesses: Matt Flynn, CH2-OH, UST #AK50' (Qualified individual per 18 AAC Peter Henderson, CH2-OH Melvin Bryant, CH2-OH	

Site	Access:	Unsecured	gravel	road

Climatological Conditions During Assessment: Overcast

FAA Tank Number: UST 78B (SOW C-3 reference)

ADEC Tank Number: Site and Facility: Annette Island former FAA Facility

Main Hangar, Bldg. 608, Annette Island, Alaska

TANK INFORMATION				
Product Stored: Gas/Diesel		Tank Capacity: appr	oximately 580 gallor	ns
Year Installed: 8/42	_ Length:	62 inches	Diameter: 53	3 inches
Wall Construction Type: X Construction Material: X Protective Outer Coating: Other:	Single Wall Steel Asphalt	Double Wall Fiberglass Resin	Fiberglass	s <u>X</u> None
Cathodic Protection: Overfill Protection:	X No X No	Yes Yes	_	Unknown Unknown
Number and Size of Tank Penetrations: Two 1-1	/2-inch bungs, fill ar	nd vent. Two 1-inch bungs, feed	and return.	
Date of Last Integrity Test: Unknown	Type of I	ntegrity Test:		
Historical Leaks or Inventory Discrepancy:				None reported.
Review of Inventory and Repair Records: No re	cords available.			
Tank Cleaning and Disposal: Tank was cut, clear recommended in (2) & (3) of section (X)-160 of MIC United Section (X)-160 of M		ne FAA scrap metal site at the Mark Regulation.		
Tank Bottoms Quantity and Disposal: Approximate Environmental, Inc., 734 South Lucile St, Seattle, WA 9		ec. diesel was collected from tan	k bottom and shipp	ed to Burlington
Tank Inspection Notes: The tank had leaks along	g the north where fu	el flowed toward the concrete fo	oting of Building 60	08.
Piping Notes: Tank piping was not encountered du	uring excavation.			

UST 78B (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar, Bldg. 608, Annette Island, Alaska

#### **EXCAVATION**

Excavation Notes: The tank was excavated with a backhoe and shovels on September 24, 1999. The final dimensions of the excavation were approximately 11 feet wide, 13 feet long, and 5 ½ feet deep. Approximately 50 gallons of water was pumped from the tank. The water was treated by granular activated carbon and discharged to the MIC sewer.

Soil Conditions: The tank sat on a layer of hard blue-clay.

Groundwater Conditions: Groundwater was encountered 4 feet below ground surface (bgs).

Thermal Conditions: The soil was unfrozen to the limits of the excavation.

### **ENVIRONMENTAL SCREENING**

Screening Instrument(s): Thermo Environmental Instruments (TEI) Model 580B Organic Vapor Meter (OVM) w/10.6 eV lamp; Industrial Scientific Corporation HMX 271 LEL/02.

Sample locations and results are shown in Figure 3. A photographic log of the site is presented in Figures 4 and 5. A summary of analytical results is attached.

### Summary of Results:

Soils Near Tank Penetrations: OVM readings at ground surface were 12 parts per million (ppm)

Soils Excavated as Required for Tank Removal: Approximately8 cubic yards were excavated for tank removal.

Soils After Tank Removal: An additional 13 cubic yards of soil was removed based on field screening results.

Soils at Limit of Excavation: Six samples were analyzed from the limits of excavation with the OVM. Six confirmation soil samples (ANN99SS007H01-

ANN99SS007HO6) were collected from the bottom and side walls of the excavation, as shown in Figure 3, for laboratory analysis offsite. The confirmation samples (ANN99SS007H01-ANN99SS007H06) were analyzed for gasoline-range organics (GRO)/benzene, toluene, ethylene, xylenes (BTEX), diesel- range organics (DRO), and residual-range organics (RR0), and sample ANN99SS007HO5 was analyzed for polycyclic aromatic hydrocarbon (PAH) and total lead.Remaining siols are above ADEC and MIC cleanup criteria for DRO.

Soils Beneath Fuel Piping and Dispensers: Not applicable.

Stockpiles: Approximately 13 cubic yards of fuel-affected soil was removed and placed directly into roll-off shipping containers for offsite

Transportation, treatment, and disposal. Containerized soil was sampled before shipping, analytical results are attached. Fuel affected soil was sent to TPS Technologies, Inc., 2800 – 104th Street Court, South, Lakewood, WA 98444 (ANN36). A soil recycling certificate is attached

Groundwater: Groundwater was encountered 4 feet bgs. A fuel sheen was observed. Samples will be collected during the scheduled release investigation.

Other Environmental Screening: No other environmental screening was performed.

UST 78B (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar, Bldg. 608, Annette Island,

Alaska

RELEASE RESPONSE
Release: Tank leaks are suspected as cause of the release.
Release Notification: Mr. Jeff Benson of the Metlakatla Indian Community (MIC) was notified on September 27, 1999, at 14:50 hours. At copy of the release notification is attached.
Telease Hourication is attached.
Initial Abatement Actions: The tank was drained, removed, and decommissioned. Approximately 13 cubic yards of soil was containerized and removed for offsite transportation and disposal.
Release Investigation Report: ADEC and MIC cleanup levels were not reached. A release investigation is scheduled for the summer of 2000.
Corrective Action: Pending results of the release investigation report.
Hazard Ranking Summary and Score: Hazard ranking summary is attached. Hazard score = 12.6.
Corrective Action Plan Summary and Status: Pending completion of the release investigation.

UST 78B (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar, Bldg. 608, Annette Island,

Alaska

DA	TA QUALITY ASSESSMENT (Note: Any "No" answer requires a comment)	Yes	No	Not Required
1.	Were samples analyzed for requested parameters?	?		
2.	Is the ADEC Data Deliverables package complete?	?		
3.	Were samples extracted within holding time acceptance criteria?	?		
4.	Were samples analyzed within holding time acceptance criteria?	?		
5.	For soils, were sample results reported on a "dry weight" basis?	?		
6.	Were method blanks analytes all reported as ND?			?
7.	For water, were trip blank analytes all reported as ND?			?
8.	Are the surrogate percent recoveries within acceptance criteria?	?		
9.	Are the matrix spike percent recoveries within acceptance criteria?	?		
10.	Are the matrix spike relative percent differences within acceptance criteria?	?		
11.	Are the field duplicate relative percent differences less than 50 percent?			?
<u>8.</u>	mments:  For DRO, surrogate recovery for samples ANN99SS007H05 and ANN99SS007H06 were not cal rogate recovery for samples ANN99SS007H001, ANN99SS007H02, and ANN99SS007H06 was For samples ANN99SS007H03 and ANN99SS007H06, RPD for DRO = 95% and RRO = 90%.		•	
Da <sup>1</sup>	te: viewer:			

FAA Tank Number:

ADEC Tank Number: Site and Facility:

UST 78B (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar, Bldg. 608, Annette Island,

Alaska

## HAZARD RANKING MODEL SUMMARY AND SCORE\*

### **SUMMARY MATRIX**

Ranking Score = MCF x Substance Factor x (Human Target + Environmental Target) =					
	Multiple Contaminant Fac	ctor (MCF)	=	1	
S	ubstance Factor = Toxicity x Quantity	x Release	=	2	
Human Site Target = Access +	Air Adjacent Target + Groundwater + Population Use	Adjacent Surface- Water Use	=	3.25	
Environmental Target	Surface- = Water + Environments	Environmental Recreation Areas	=	2	
	OR .				
E	vironmental Target = Observed Effect	cts	=	N/A	
Environmental Target Score				2	
Air Air Target = Exposur Index 1 Mile	•	Population Within	=	0.5 Population	
Adjacent Groundwa Groundwater = Use Use	er Groundwater F x Exposure x Index	Population Within 1 Mile	=	.35	
Adjacent Surface Surface- = Water Water Use Use	Surface-Water F x Exposure x Index	Population Within 1 Mile	=	.4	

CH2-OH

ANC/78B.DOC/ 993430003

Approved by: \_\_\_\_\_

UST Decommissioning FAA Facility, Annette Island, Alaska Project No. 154116.E1.E8

FAA Tank Number: ADEC Tank Number:

Site and Facility:

UST 78B (SOW C-3 reference)

Annette Island former FAA Facility
Main Hangar, Bldg. 608, Annette Island

Alaska

#### **MULTIPLE CONTAMINANT FACTOR (MCF) Score = 1.2** Value 1.2 Multiple contaminants 1 Single contaminant Score = 2 **TOXICITY Value Toxicity** 4 Chlorinated solvents, other halogenated hydrocarbons, synthetic chlorinated 3 Metals, gasoline, aviation gasoline, naphtha, non-chlorinated pesticides 2.1 Unknown substances 2 Diesel fuel, jet fuels, kerosene, phenols, or non-chlorinated solvents, crude oil 1 Waste lubricating oils, heavy fuel oils (No. 6 etc.) inorganic acids/bases, tar **QUANTITY** Score = 1 Spilled Cubic Yards Surface Area **Value** Drums Gallons or Tons (square feet) <10 <500 <100 <100 1 2 10-100 500-5,500 100-500 100-10,000 10,000-1 acre 3 100-1,000 5,500-40,000 500-2,000 4 >1,000 >40,000 >2,000 >1 acre **POTENTIAL FOR RELEASE** Score = 1 **Value** <u>Release</u> 1 Documented release regardless of quantity 0.5 Containment/management practices that may pose significant threat 0.2 Unknown potential for release 0.1 Documented absence of release Score = 2 SITE ACCESS Value **Access** 3 School within 500 feet and site access is uncontrolled 2 Access uncontrolled 1 Site is partially secure 0 Hazardous substances are underground, or site is secure

CH2-OH

UST Decommissioning FAA Facility, Annette Island, Alaska Project No. 154116.E1.E8

Shannon & Wilson, Inc., and Science Applications International Corporation, Draft Alaska hazard ranking model for the contaminated site database, prepared for ADEC, January 21, 1991.

FAA Tank Number: ADEC Tank Number:

EC Tank Number: Site and Facility: UST 78B (SOW C-3 reference)

Annette Island former FAA Facility

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1 Documented release of particulates or gases 0.5 Releases may have occurred, but have not been documented 0.2 Unknown whether wastes are at ground surface, or sites with stockpiles of contaminated soil not known to be completely contained 0.1 No air releases	
<ul> <li>0.5 Releases may have occurred, but have not been documented</li> <li>0.2 Unknown whether wastes are at ground surface, or sites with stockpiles of contaminated soil not known to be completely contained</li> </ul>	
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contaminated soil not known to be completely contained	
· ·	
POPULATION WITHIN 1 MILE Score = 5	
<u>Value</u> <u>Within One Mile</u>	
10 Urban residential (>35,000)	
8 Suburban; Cities of 2,000 - 35,000; or industrial/commercial	
5 Villages of <2,000; or low density housing or low density industrial/commercial	
3 Rural, with some occupied buildings	
0 No population	
POPULATION WITHIN 500 FEET Score = 1	
<u>Value</u>	
1 Occupied buildings	
0.5 No occupied buildings	
GROUNDWATER USE (WITHIN 1 MILE) Score = 0.1	
Value	
1 Municipal or other public wells serving >25 individuals	
0.8 Community or private wells	
0.4 Drinking water supply >1 mile from site, OR no known wells, but possibility exists	
0.1 Groundwater not available for drinking water or not used	
GROUNDWATER EXPOSURE INDEX Score = 0.7	
<u>Value</u>	
2 Documented contamination of water supply wells >MCL	
1.4 Documented contamination of water supply wells <mcl< td=""><td></td></mcl<>	
0.7 Groundwater contamination exists, but no contamination of water supply wells	
0.4 Unknown whether groundwater contamination exists	
O Groundwater documented free of contamination, OR low potential for contamination	

FAA Tank Number:

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	SURFACE-WATER USE (WITHIN 1 MILE OF SITE)	Score = 0.2
<u>Value</u>		
1	Surface water used as drinking water source	
0.5	Surface-water use unknown, but likely	
0.2	Surface-water use unknown, but unlikely, OR surface water not used	
	SURFACE-WATER EXPOSURE INDEX	Score = 0.4
<u>Value</u>		
2	Documented contamination of surface drinking water supply >MCL	
1.4	Documented contamination of surface drinking water supply <mcl< td=""><td></td></mcl<>	
0.7	Surface-water contamination exists, but no contamination of surface drinking water supply	
0.4	Unknown whether surface-water contamination exists	
0	Surface water documented free of contamination, OR low potential for contamination	
	SURFACE-WATER ENVIRONMENTS (WITHIN 1/4 MILE OF SITE)	Score = 2
<u>Value</u>		
5	Fresh/marine waters or wetlands present, and evidence of death/stress to fish or wildlife	
3	Fresh/marine waters or wetlands present, and evidence of death/stress to plant life	
2	Fresh/marine waters or wetlands present, but no evidence of death/stress to fish, wildlife, or plant life	
0	No fresh or marine waters or wetlands present	
	ENVIRONMENTAL/RECREATION AREAS*	Score = 0
<u>Value</u>		
5	In an Environmental/Recreation area with evidence of death or stress to fish or wildlife	
3	In an Environmental/Recreation area with evidence of death or stress to plant life	
2	In an Environmental/Recreation area with no evidence of death or stress to fish, wildlife, or plant life	
0	Not in an Environmental/Recreation area	
	OBSERVED ENVIRONMENTAL IMPACTS	Score = 0
<u>Value</u>		
5	Evidence of death or stress to fish or wildlife	
3	Evidence of death or stress to plant life	
0	No evidence of death or stress to wildlife or plant life	
	Note: This factor is scored only if Surface-Water Environments and Environmental/Recreational Areas both score zero.	

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 $<sup>{\</sup>rm ^*Environmental/Recreation\ areas\ include\ National/State\ Parks,\ Monuments,\ Refuges,\ Forests,\ and\ Recreation\ Areas.}$ 

UST 78B (SOW C-3 reference)

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Photograph 2-7. Tank 78B. Top of UST 78B uncovered. Facing north.



Photograph 2-13. Tank 78B. UST 78B out of excavation, showing water under UST.

Figure 4 78B Photographic Log UST Decommissioning Assessment Main Hangar, Building 608

Annette Island Former FAA Facility, Alaska

UST 78B (SOW C-3 reference)

Annette Island former FAA Facility

Main Hangar, Bldg. 608, Annette Island,
Alaska



Photograph 2-19. Tank 78B. UST 78B at Building 608. West bulkhead, facing east.



Photograph 2-21. Tank 78B. Removing contaminated soils at Building 608. Facing east.

78B Photographic Log
UST Decommissioning Assessment
Main Hangar, Building 608

Annette Island Former FAA Facility, Alaska